

STIC Search Report Biotech-Chem Library

STIC Database Translation Number

TO: Phillip Gambel

Location: REM/3E81/3C70

Art Unit: 1644

Friday, December , 2005

Case Serial Number: 09/751797

From: Toby Port

Location: Biotech-Chem Library

REM-1A59

Phone: 571-272-2523

toby.port@uspto.gov

Searen Notes

Examiner Gambel,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Toby Port X22523



This Page Blank (uspto)



[174675	
ristina December 19, 2005 3:54 PM Phillip; STIC-Biotech/ChemLib 1797 interference search PLEASE RUSH S	EQUENCE INTERFERENCE SEARCH
ris	•
inator and SPE 1644	
05 3:44 PM arch Please Rush Sequence Interference Search	- -
CE INTERFERENCE SEARCH for use of the control of th	
	高
en e	and the second s
	•
**********	*********
	· Vendors and cost where applicable
NA# AA#:	
S/L: Oligomer:	STN: DIALOG:
Encode/Transl:	QUESTEL/ORBIT:
Structure #:Text: Inventor: Litigation:	LEXIS/NEXIS: SEQUENCE SYSTEM: WWW/Internet: Other (Specify):
	ristina December 19, 2005 3:54 PM Phillip; STIC-Biotech/ChemLib 1797 interference search PLEASE RUSH S Pris Pris

This Page Blank (uspto)



```
GenCore version 5.1.6

Copyright (c) 1993 - 2005 Compugen Ltd.

OM/Nucleic - nucleic search, using sw model

Run on: December 20, 2005, 13:17:12 ; Search time 126.661 Seconds

(without alignments)
```

	(Without allyments) 15704.028 Million cell updates/sec
Title: Perfect score: Sequence:	US-09-751-797-7 1119 1 taaacaggctctcctctcactggatatcataaaaaaaa 1119
Scoring table:	IDENTITY NUC Gapop 10-0 , Gapext 1.0
Searched:	1303057 seqs, 888780828 residues
Total number of	Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents NA:*

1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*

2: /cgn2_6/ptodata/1/ina/6_COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6_COMB.seq:*

4: /cgn2_6/ptodata/1/ina/H_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*

6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

7: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

8: /cgn2_6/ptodata/1/ina/PCOMB.seq:*

9: /cgn2_6/ptodata/1/ina/PCOMB.seq:*

9: /cgn2_6/ptodata/1/ina/PCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ribution.		Description	Sequence 7, Appli Sequence 7, Appli	,	Sequence 3, Appli Sequence 9, Appli	6	6	40,	8	œ`	œ	17,	53		1, 4	1, 7	14,	14, A	Sequence 5443, Ap	24, A	24,	17		25
and is derived by analysis of the total score distribution	SUMMARIES	QI	US-09-178-973B-7 US-09-419-568F-7	US-09-354-243B-7	US-10=084-298-3 US-09-178-973B-9	US-09-419-568F-9	US-09-354-243B-9	US-10-090-365-40	US-09-178-973B-8	US-09-419-568F-8	US-09-354-243B-8	US-09-178-973B-17	US-09-419-568F-29	US-09-354-243B-29	US-10-084-298-1	US-09-870-574-1	US-10-090-365-14	US-09-728-911-14	US-09-949-016-5443	US-09-419-568F-24	US-09-354-243B-24	US-09-949-016-17185	US-10-084-298-9	US-09-419-568F-25
y analysie		Length DB	1119 3	1119 3	1166 3	1111 3	1111 3	1050 3	7445 3	7445 3	7445 3	5935 3	5935 3	5935 3	1191 3	1152 3	1116 3	1116 3	689 3	690 3	690 3	8888 3	191 3	4797 3
rived b	di	ch G	100.0	100.0	93.6	93.6	93.6	88.8	53.7	53.7	53.7	49.6	49.6	49.6	47.8	46.9	46.9	46.9	36.6	36.6	36.6	19.4	16.6	11.3
na is ae		Score	1119	1119	1047.8	1047.8	1047.8	993.2	601.4	601.4	601.4	555.2	555.2	555.2	535.2	524.8	524.4	524.4	409.2	409.2	409.2	216.6	186.2	126
rd		Regult No.	2 1 2	e ,	4ª rù	9	7	80	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

25, Appl	8674, Ap	8435, Ap	61868, A	13539, A	12776, A	15940, A	8425, Ap	12776, A	15940, A	27, Appl	2, Appli	13256, A	22, Appl	13504, A	13504, A	16001, A	12900, A	12412, A	23, Appl
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence
US-09-354-243B-25	US-10-131-827-8674	US-10-131-827-8435	US-09-949-016-61868	US-09-949-016-13539	US-09-949-016-12776	US-09-949-016-15940	US-10-131-827-8425	US-09-949-016-12776	US-09-949-016-15940	US-09-662-254B-27	US-07-867-106-2	US-09-949-016-13256	US-09-806-708B-22	US-09-949-016-13504	US-09-949-016-13504	US-09-949-016-16001	US-09-949-016-12900	US-09-949-016-12412	US-09-662-254B-23
m r	n (1)	m	m	ო	٣	m	'n	m	m	m	~	m	m	m	m	m	m	m	ю
4797	258	514	582	314798	187169	191569	194	187169	191569	32392	5852	50368	1141	59519	59519	317366	462589	476044	20000
11.3	7.2	7.0	5.9	5.9	5.8	5.8	5.5	5.5	5.5	5.3	5.3	5.3	5.3	5.3	5.2	2.5	5.1	5.1	5.1
126	80.8	78.4	66.4	66.4	64.8	64.8	61.4	61.2	61.2	59.6	59.4	59.4	29	29	28	57.8	57.2	57.2	57
25	27	28	c 29	c 30	31	32	33	c 34	c 35	36	37	38	c 39	۵ 40	41	42	c 43	C 44	c 45

ALIGNMENTS

```
Sequence 7, Application US/09178973B

Sequence 7, Application US/09178973B

Patent No. 6274710

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Factorities of INVENTION: (TIFE)

TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5543

CURRENT APPLICATION NUMBER: US/09/178,973B

CURRENT FILING DATE: 1998-10-26

NUMBER OF SEQ ID NOS: 17

SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 GTGTCCAACTTCCAGCAGCGGTACATCGTCAACGCACCTTTATGCTGGCCAAGGAGGCC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 ATTGCCCTGTGGGCCAGGGGAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 AGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 raaacaggcrcrcrcrcrcrcrrarcaacrgrrgacacrrgrgcgarcrcrgargcrgrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                            Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 1119; DB 3; Best Local Similarity 100.0%; Pred. No. 3.3e-272; Matches 1119; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Mus musculus
US-09-178-9738-7
                                                                                                                                                                                                                                                                                                           LENGTH: 1119
  US-09-178-973B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
```

ö

```
900
                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCTIANGNAACTICATTICCATATCCAATATTTATATATATGTAAGTITATTATTATAA 960
                                                                                                                                                    120
                                                                                                                                                                CTGCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTGTT 120
                                                                                                                                                                                          180
                                                                                                                                                                                                              180
                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                            300
                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                    360
                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                         crecrececagreagacagerrecageceracargeaggaggragratrecreace 420
                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                               9
                                                                                                                                                                                                                                 ATGAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATGAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACTICATAACCACAAAGATICATICACAATATITIATICGICACTGATGATACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAA
                                                                                                                                                                                           ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                     CTGCTCCCCAGTCAGATCAGGTTCCAGCCCTACATGCAGGAGGGGGGTGCTATCCTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGACTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCAC
                                                                                                                                                    ATTGCCCTGTGGGCCCAGGAGGCAATGCGCTGCCCGTCAAACACACCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                               AGIGCTAAAQAICACTGCTACCTGAIGAAGCAGCTGCTCAACTTCACCCTGGAAGACGTT
                                                                                                                                                                                                                                                                                                                                                                                                AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGAAGA
                                                                                                                               TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                          AGCCTTGCAGATAACAACACACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC
                                                                                        .
0
                                                                    Length 1119
                                                                                                           TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCT
                                                                                         Indels
                                                                    ; Score 1119; DB 3;
; Pred. No. 3.3e-272;
0; Mismatches 0;
                                                                      100.0%;
                                                                                         Conservative
                               musculus
                                                                    Query Match
Best Local Similarity
Matches 1119; Conser
         LENGTH: 1119
TYPE: DNA
ORGANISM: MUS "
FEATURE:
                                                  US-09-419-568F-7
                                                                                                                                                                                                                                                                           241
                                                                                                                                                                         61
                                                                                                                                                                                            121
                                                                                                                                                                                                                121
                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            901
                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                         481
SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                              Š
                                                                                                                              셤
                                                                                                                                                    ò
                                                                                                                                                                   셤
                                                                                                                                                                                            ઠ
                                                                                                                                                                                                          셤
                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                            ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Louned, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: 150lated Nucleic Acid Molecules which Encode T Cell Inducible
TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof
TITLE OF ILING DATE: 1099-10-18
CURRENT APPLICATION NUMBER: US/09/419,568F
CURRENT APPLICATION NUMBER: US/09/154,243
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                TATTGATATTTAGTATAAGGCAAATAATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                  420
                                         420
                                                             480
                                                                                480
                                                                                                     540
                                                                                                                                            600
                                                                                                                                                               600
                                                                                                                                                                                    999
                                                                                                                                                                                                       9
                                                                                                                                                                                                                           720
                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                                                                                                                 AAATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAA 900
                                                                                                                                                                                                                                                                                                                                                           AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT 360
                                                                                                                                                                                  AGCTAGAAAA CGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                           GACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAA
                                CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC
                                                                       TGGACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATAGAAGATTTCAC
                                                                                                                                                                                                                                                                                                          GACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAA
                      CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC
                                                             AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG
                                                                                                     AATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCG
                                                                                                                                             ATTGGGGAACTGGACCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA
                                                                                                                                                                                                      AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTAGGCTTTAATAAACACATGGATATCATAAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 7, Application US/09419568F; Patent No. 6331613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-419-568F-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1021
                                                                                                                                                                                                                                                                                                                                                  841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1081
   301
                     361
                                          361
                                                              421
                                                                                                     481
                                                                                                                                             541
                                                                                                                                                                541
                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                             901
                                                                                                                                                                                                                                                                                                                                                                                                                                 961
                                                                                                                                                                                                                                                                                                                                                                                                                                                    196
                                                                                  421
                                                                                                                         481
                                                                                                                                                                                    601
                                                                                                                                                                                                        601
                                                                                                                                                                                                                            661
                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                          781
                                                                                                                 8 5 8 5 8 5 8 5 8 5 8 5 8
                                                                                                                                                                                                                                                                                                                                                                                                     d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                               6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                    a
                                                           $ 8 &
                ò
```

```
1021 TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGC 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                         009
                                                                                                           540
                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                  99
                                                                                                                                                                                                                                                                                                                                           099
                                                                                                                                                                                                                                                                                                                                                                                             TGGACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATITCAC 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  841 AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAA 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721 ATGAAACCTGGCTCAGTTGAAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGCTTATGTAACTTCCATTTCCATATCCAATATTTTATATGTAAGTTTTATTATAA 960
421 AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGGTGACGACCAGAACATCCAGAAG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 3, Application US/10084298;
Sequence 3, Application US/10084298;
Patent No. 693545;
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: Fittman, Debra
APPLICANT: Fittman, Debra
APPLICANT: Spaulding, Vikki
TITLE OF INVENTION: Composition and Method for Treating Inflammatory
TITLE OF INVENTION: Composition and Method for Treating Inflammatory
TITLE OF INVENTION: Disorders
FILE REFERENCE: GIS358 CIP
CURRENT FILING DATE: 2002-09-10
PRIOR FILING DATE: 2001-04-03
PRIOR PLICATION NUMBER: 60/270,823
PRIOR PLICATION NUMBER: 60/270,823
PRIOR PLILING DATE: 2001-04-03
PRIOR FILING DATE: 2001-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILE CATION NUMBER: 09/561,811
PRIOR FILE CATION NUMBER: 2000-04-28
                                                                                ATTGGGBACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                    661 TGGACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCAC
                                                                                                                                                                    ATTGGGGAACTGGACCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAGA
                                                                                                                                                                                                                                                                                  AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                   AGCTAGABABACGAAGAACTGCTCCTTCCTGCTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGADA CCTGGCTCAGTTGADADADADADATGCTCDAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      781 GACTIGATAACCACAAAGATICATIGACAATATITITATIGICACIGAIGATACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SULT 4
-10-084-298-3
                                                                                                                                                                    541
                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                     481
                                                  ð
                                                                                            g
                                                                                                                                                  ò
                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 7, Application US/09354243B
Sequence 7, Application US/09354243B
Patent No. 635917
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Louched, Jamila
APPLICANT: Remaild, Jean-Christophe
TITLE OF INVENTION: TRESPECTOR (TIFE)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.1
CURRENT APPLICATION NUMBER: US09/354, 243B
CURRENT FILING DATE: 1998-10-26
PRIOR FILING DATE: 1998-10-26
SEO ID NOS: 29
                                                                                1021 TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                    TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GIGITICAACTITICAGCAGCCGTACATCAACCGCACCTITIATGCTGGCCAAGGAGGCC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGTGCTAAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG 480
901 AGCTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATAA 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Arrececreresecenseses Antices en a recent esta en a recent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTGCCCTGTGGGCCCAGGAGGAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                               TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                      Query Match
100.0%; Score 1119; DB 3;
Best Local Similarity 100.0%; Pred. No. 3.3e-272;
Matches 1119; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                   -09-354-243B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-354-243B-7
                                                                                                                                                              1021
                                                                                                                                                                                                                                                                               1081
                                                                                                           961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                     961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURE:
                                               8 8 8
                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 8 8
음
                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
```

```
ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                              Query Match 93.6%;
Best Local Similarity 97.0%;
Matches 1078; Conservative 0
                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                  RESULT 5
US-09-178-973B-9
                                                                                                                                                                                                                          1111
                                                                                                                                                                                                                                                US-09-178-973B-9
              984
                              1021
                                                            1081
                                                                                                                                                                                                                                                                                                                           63
                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                         123
                                                                                                                                                                                                                                                                                                                                                                                       183
                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                     243
                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                   303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                     ₽
                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                જે
                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
         ď
                            8 8
                                                           ઠે
                                                                      g
                                                                                                                                                                                                                                                                                             ò
                                                     ö
                                                                                                                              ATTGCCCTGTGGGCCCAGGAGGAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                              240
                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                       TGGACTTTTTACTAAAGGAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCAC 720
                                                                                                                                                                                                                                                                                                                                                                                                                                           780
                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      143
                                                                                                                                                                            263
                                                                                                                                                                                           300
                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                       443
                                                                                                                                                                                                                                                                                      AAACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG 480
                                                                                                                                                                                                                                                                                              AATGTCAGAAGGCTGAAGGACACAGTGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCG 540
                                                                                                                                                                                                                                                                                                                                   563
                                                                                                                                                                                                                                                                                                                                                 ATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA 600
                                                                                                                                                                                                                                                                                                                                                          regacitititraciaaaggaaagrgaggaagciaacgrccarcatratragaagariticac 743
                                                                                                 AGCCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC 323
                                                                    9
                                                                                 83
                                                                                                                                                                                                                                                                                                                            GTGTCCAACTTCCAGCAGCCATACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAA
                                                                             TAPACAGGCTCTCTCTCTGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                          CTGCTCCCCCAGTCAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC
                                                                                                                                                              GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                            AGCCTTGCAGATAACAACACACGTCCGGCTCATCGGGGGAGAAACTGTTCCGAGGAGTC
                                                                                                                                                                                                                        AGTGCTAAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT
                                                                    TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTTGTGCGATCTCTGATGGCTGTC
                                                     Gaps
                                                    ..
0
                                     Length 1166,
                                                    7; Indels
                                      DB 3;
                                     Score 1107.8; DB 3
Pred. No. 2.2e-269;
0; Mismatches 7;
                                     Query Match
Best Local Similarity 99.04%;
Matches 1112; Conservative
        ; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                           744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       864
                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                        384
                                                                                                                                                                                                                                                                                                     444
                                                                                                                                                                                                                                                                                                                                   504
                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                             684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      901
                                                                                                  61
                                                                                                                 84
                                                                                                                                121
                                                                                                                                               144
                                                                                                                                                              181
                                                                                                                                                                             204
                                                                                                                                                                                            241
                                                                                                                                                                                                           264
                                                                                                                                                                                                                                         324
                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                            721
                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 6 8 6
                                                                                                  8 6 8 6 8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                               셤
```

Sequence 9, Application US/09178973B

Sequence 9, Application US/09178973B

Patent No. 6274710

GENERAL INFORMATION:
APPLICANT: Lounded, Jamila

APPLICANT: Lounded, Jamila

APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIF8)

TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543

CURRENT PAPLICATION NUMBER: US/09/178,973B

CURRENT PILING DATE: 1998-10-26

NUMBER OF SEQ ID NOS: 17

TENCH OF T 1020 240 362 422 182 180 242 302 300 360 122 120 62 9 GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 1044 TATTGATATTTAGTATAAGGCAAATAATATTATGACAATAACTATGGAAACAAGATATC GCAGAAATCTATGAGTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTGTCAT GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG GTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATATAGAAACATTATATCTGC AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT TGCCCTGTGGGGCCCAGGAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT GTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGC TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 3 AACAGGCTCTCCTCTCATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT Gaps 1; Length 1111; Score 1047.8; DB 3; Length. Pred. No. 3e-254; 0; Mismatches 32; Indels TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119

542

540

420 482 480

```
1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATACATITIATITIAGCAGTITATIAAJATGGATITATIATAGAAACATIATCGCTA 1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                             182
                                                                                                      180
                                                                                                                                 242
                                                                                                                                                         240
                                                                                                                                                                                 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 302
                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                            422
                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                    542
                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                       602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               962
                                                   120
                                                                                                                                                                                                             300
                                                                                                                                                                                                                                       362
                                                                                                                                                                                                                                                                                                                                                 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           902
                                                                                           121 TGCCCTGTGGGGCCCAGGAGCAAATGCGCTGCCCATCAACACCCGGGGGAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541 CGGGGAACTGGACTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACTITITIACTAAAGGAAAGTGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                      CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGATAACCACAAAAGATTCATTGAAAAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTGAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GICCAACTICCAGCAGCCGTACATCGICAACCGCACCTITATGCTGGCCAAGGAGGCCAG
                                                                                                                                                GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                         CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                      TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                      gerececeagreadacaggricegeceracarecaggaggaggreecrirrecridaceaa
                                                                                                                                                                                                                                                                                                                                                                           acticaccaaticaccricaccricacaticacaticacricacaccacaacaticcagaagaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GACTTTTTTACTAAAGGAAAGTGAGAAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTAIGTAACTICATITCCATATCCAATATITIATATGTAAGTITTATITATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                             TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                         TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                                                                             GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                     TGTCAGAAGGCTGAAGGACAGTGAAAAAGCTTTGGAGAGAGTGGAGAGATCAAGGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                              543 TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAGGCTTTAATAAACACATGGATATCATAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081 raggerrraaraacaeargaararearaaa 1111
                                                   61
                                                                                                                                                           181
                                                                                                                                                                                    243
                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1023
                           63
                                                                             123
                                                                                                                                  183
                                                                                                                                                                                                                                         303
                                                                                                                                                                                                                                                                                            363
                                                                                                                                                                                                                                                                                                                                                 423
                                                                                                                                                                                                                                                                                                                                                                                                     483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     963
                                           8 è
                                                                                                 g
                                                                                                                                 8 6
                                                                                                                                                                                 ઠે
                                                                                                                                                                                                         g
                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    कें व
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 8
                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Louned, Jamila
APPLICANT: Round, Jamila
TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
CURRENT FILING DATE: 1999-10-18
PRIOR PAPLICATION NUMBER: USO9/354,243
PRIOR PILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                            1081
                                                                                                                                                                                                                                                                                                                                                                                      782
                                                                                                                                                                                                  780
                                                                                                                                                                                                                            842
                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                              902
                                                                                                                                                                                                                                                                                                        900
                                                                                                                                                                                                                                                                                                                                    962
                                                                                                                                                                                                                                                                                                                                                             960
                                                                                        660
                                                                                                                                              720
                                                                               CTAGAAAAAGGAAGAAGAACTGCTTCCTGCCTTCTAAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                  GACTITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                     GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                         CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA
                                                                                                                                                                                                                                                                              ATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                     TTGATATTT-AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCT
                           CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCAGGAAGAAG
                                                                                                                                                                                                                           CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                               AGTATGTACTTTAAAAAATTGTTTGAAAGGGGGGTTACCTCTCTTCTTGAAAAGAAAAG
                                                                                                                                                                                                                                                                                                                                                 GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCACAT
                                                                                                                                                                         GAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                   CTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AACAGGCTCTCCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 93.6%; Score 1047.8; DB 3; Length Best Local Similarity 97.0%; Pred. No. 3e-254; Matches 1078; Conservative 0; Mismatches 32; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 9, Application US/09419568F Patent No. 6331613 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 6
US-09-419-568F-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-419-568F-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                      541
                                                                                                                                                                                                                                                                                                                                                            901
                                                                                                                                                                                                                                                                                                                                                                                                                  196
                                                                                                                                                                                                                                                                                                                                                                                                                                            1023
                                                                 603
                                                                                        601
                                                                                                                   663
                                                                                                                                              661
                                                                                                                                                                       723
                                                                                                                                                                                                721
                                                                                                                                                                                                                           783
                                                                                                                                                                                                                                                    781
                                                                                                                                                                                                                                                                               843
                                                                                                                                                                                                                                                                                                          841
                                                                                                                                                                                                                                                                                                                                   903
                                                                                                                                                                                                                                                                                                                                                                                       963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1082
                                                                                                            8 8 8
                               ద
                                                                 8 6
                                                                                                                                                                                       8 8 8 8
                                                                                                                                                                                                                                                                                                 Ω
                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                           8 8
               ઠ
                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

842

```
ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGCTA 1022
                                                                                                                                                                                                                                                                                                         TTGATATTT-AGTATAAGGCAAATAATATTATGACAATAACTATGGAAACAAGATATCT 1081
                                                                                                                                                                                                                                               721 GAAACCTGGCTCAGTTGAAAGAGAAAATAGTCTCAAGTTGTCCATGAGACCAGAGGTAGA 780
                                                                                                                                                                     CTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTTATTATAAGT 962
                                                                                                                                          3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                               CITGADAACCACAAAGAITCAITGACAATAITITTATTGICACTGATGATACAACAGAAAA
GACTITITITACTAAAGGAAAGTGAAAGCTAAACGTCCATCATCATTAGAAGATTTCACAT
                                                       GAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 88.8%; Score 993.2; DB 3; Best Local Similarity 97.2%; Pred. No. 1.7e-240; Matches 1021; Conservative 0; Mismatches 28;
                                                                                                                                                                                                                                                                                                                                                                                                            1082 TAGGCTTTAATAAACACATGGATATCATAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                             1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 40, Application US/10090365
; Sequence 40, Application US/10090365
; Patent No. 6875840
; GENERAL INFORMATION:
APPLICANT: Presnell, Scott R.
APPLICANT: Xu, Wenfeng
APPLICANT: Chen, Zhi
TITLE OF INVENTION: Mouse Cytokine Receptor
FILE REFERENCE: 01-08
FILE REFERENCE: 01-08
CURRENT FILING DATE: 2002-03-04
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 49
; SCOID NO 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH: 1050
                                                                                                                                                                                                                                                                                                                        961
                                                                                                                                                                                                                                                                                                                                                                                 1021
   663
                                                          723
                                                                                                                  783
                                                                                                                                               781
                                                                                                                                                                           843
                                                                                                                                                                                                                                   903
                                                                                                                                                                                                                                                                                           963
                                                                                                                                                                                                                                                                                                                                                    1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                යි
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                         g
                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                        셤
                                                         8
                                                                              ద
                                                                                                           ò
                                                                                                                                                                           ઠ
                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                 ū
                                                                               APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Tablated Nucleic Acid Molecules which Encode T Cell Inducible I
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 IGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cerrecagaraacaacacacacerecegerearecegaaaacrerrecaagaarerea 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    63 GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTGCTTCTCAT 122
                                                                                                                                                                                                                                                                                                                                                                                                                             62
                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTTGGAGAGAGTGGAGATCAAGGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGGGAACTGGACCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                           3 AACAGGCTCTCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                1;
                                                                                                                                                                                                                                                                                                                                                                     Length 1111;
                                                                                                                                                                                                                                                                                                                                                                  Query Match 93.6%; Score 1047.8; DB 3; Length Best Local Similarity 97.0%; Pred. No. 3e-254; Matches 1078; Conservative 0; Mismatches 32; Indels
                                           ; Sequence 9, Application US/09354243B; Patent No. 6359117; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                  LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                        US-09-354-243B-9
                                 09-354-243B-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              363
                                                                                                                                                                                                                                                                                                                           PEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ⋧
```

62 9 Faci

Cell Inducible

H

Encode

which

Thereof

```
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules whi
TITLE OF INVENTION: (TIFs)
TITLE OF INVENTION: The Proteins Encoded, and Uses The
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT PILIG DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
SEQ ID NO 8
LENGTH: 1445
TYPE: DNA
                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                242
                                                                      240
                                                                                          302
                                                                                                                                 362
                                                                                                                                             TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                        422
                                                                                                                                                                                           420
                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                      542
                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                             602
                                                                                                                                                                                                                                                                                                                 600
                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                                                                                                                                                                                                                   782
                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                           842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         962
                               180
                                                                                                     CCTTGCAGATAACAACACAGAGGTCCGGCTCATCGGGGGAGAAACTGTTCCGAGGGGTCAG 300
                                                                                                                                                                                                               ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 482
                                                                                                                                                                                   GCTCCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTTCCTGACAAA
                                                                                                                                                                                                                                                                                                                                                                                        ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACCACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                             TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTATGTAACTTCATTTCCATAACCAATACTTTATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                          CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG
                                                                                                                                 TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                        GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                     rereadadecreaaddadacaergaaaaacerrecagagacegagagareaaaccar
                                                                                                                                                                                                                                                                                                                  CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                       CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                      CTAGAAAACGAAGAACTGCTTCCTTCCTTCTAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                             GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                   GAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTGATATTT-AGTATAAGGCAAATAATATT 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                             543
                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
             123
                               121
                                                    183
                                                                      181
                                                                                         243
                                                                                                              241
                                                                                                                                303
                                                                                                                                                    301
                                                                                                                                                                        363
                                                                                                                                                                                                              423
                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                     483
                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                      603
                                                                                                                                                                                                                                                                                                                                                                            663
                                                                                                                                                                                                                                                                                                                                                                                               661
                                                                                                                                                                                                                                                                                                                                                                                                                   723
                                                                                                                                                                                                                                                                                                                                                                                                                                                           783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               963
                            ద
                                           8 6
                                                                                     8 &
                                                                                                                                             g
                                                                                                                                                                                    셤
                                                                                                                                                                                                       ò
                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                     8 8
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                                                                                                                                                                         Д
                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8
             ઠે
                                                                                                                         ે
                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

Sequence 8, Application US/09178973B;
Patent No. 6274710;
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila

RESULT 9 US-09-178-973B-8

```
Sequence 8, Application US/09419568F

Sequence 8. Application US/09419568F

Sequence 8. Application Sequence 8. Se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6894
                                                                                                                                                                                                                                                                                     6594
                                                                                                                                                                                                                                                                                                                                                                                                                    6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCTAACGTCCATCATCATTAGAAGATTTCACATGAAAACCTGGCTCAGTTGAAAAAGAAAA 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134
                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    686
                                                                                                                                                                                                                                                                                                                                                        629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TATITIATATATATGTAAGTTTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATATGGATTTATAGAAACATTATCTGCTATTGATATTTAGGTATAAGGCCAAATAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT
                                                                                                                                                                                                                                                                                                                                                                                                                       ATAITITIATIGICACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                     <u>AAAGCTTGGAGAGAGTGGAGAGAATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC</u>
                                                                                                                                                                                                                                                                                                                                                        GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                         ô
                                                                                             Length 7445;
                                                                                                                                                            Indels
                                                                                          Score 601.4; DB 3;
Pred. No. 2.6e-141;
0; Mismatches 1;
                                                                                          53.7%;
ilarity 99.8%;
Conservative
   musculus
                                                                                             Query Match
Best Local Similarity
Matches 602; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7137
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-419-568F-8
                          US-09-178-973B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7015
                                                                                                                                                                                                                            210
                                                                                                                                                                                                                                                                                        6535
                                                                                                                                                                                                                                                                                                                                                        570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7135
```

ô

```
Sequence 17, Application US/09178973B

Patent No. 6774710

GREAL INCRMATION:
PAPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Rouhed, Jamila
TITLE OF INVENTION: ISolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7134
                                                                                                                                                                                                                                                                                                                                                                                                                                     6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6594
                                                                                                                                                                                                                                                                                                                                                                            6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6894
                                                                                                                                                                                                                                                                                                                                                                                                        689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           989
                                                                                                                                                                                                                                                                                       569
                                                                                                                                                                                                                                                                                                                                                629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    749
                                                                                                                                                                                                                                                                                                            ATAGCTTGGAGAGAGAGAGAGAGATCAAGGCGATTGGGAACTGGACCTGCTGTTAATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                          6835 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TATTTTATATGTAAGTTTATTATTATAAGTATACATTTTATTATAAGTATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1050 TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              990 ATATGGATTTATTAGAAACATTATCTGCTATTGATATTAGTATAAGGCAAATAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       810 ATAITITATIGICACIGAIGATACAACAGAAAAATAATGIACITITAAAAAATIGITIGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  870 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           930 TATTTTATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                            Length 7445;
                                                                                                                                                                                                                                                                                        510 AAAGCTTGGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCT
                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                          Score 601.4; DB 3;
Pred. No. 2.6e-141;
0; Mismatches 1;
                  and
TITLE OF INVENTION: (TIF8)

TITLE OF INVENTION: The Proteins Encoded, an FILE REFERENCE: LUD 5543.1

CURRENT APPLICATION NUMBER: US/09/354,243B

CURRENT PILING DATE: 1999-07-16

PRIOR APPLICATION NUMBER: US/09/178,973

PRIOR FILING DATE: 1998-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NO 8
                                                                                                                                                                                                                             53.7%;
99.8%;
                                                                                                                                                                                                                                             Best Local Similarity 99.6
Matches 602; Conservative
                                                                                                                                                      TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 12
US-09-178-973B-17
                                                                                                                                        7445
                                                                                                                                                                                                   US-09-354-243B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1110 /
                                                                                                                                                                                                                                                                                                                      6535
                                                                                                                                                                                                                                                                                                                                                   570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6955
                                                                                                                                                                                                                                                                                                                                                                                 6595
                                                                                                                                                                                                                                                                                                                                                                                                            630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 750
                                                                                                                                                                                                                               Query Match
                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                         Б
                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Application US/09354243B
| Patent No. 6359117
| GENERAL INFORMATION:
| APPLICANT: Dumoutier, Laure
| APPLICANT: Louhed, Jamila
| APPLICANT: Renauld, Jean-Christophe
| TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAAGGCAAATAATA 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTTAATAAACACATGGATATCAT 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                 6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGGGAA 6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAAAA 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                989
                                                                                                                                                                                                                                                                                           569
                                                                                                                                                                                                                                                                                                                                                   629
                                                                                                                                                                                                                                                                                                                                                                                                              689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATATTTTATTGTCACTGATGCAACAGAAAAAAAAAGTACTTTAAAAAATTGTTTGAA 869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGAGGITACCICICATICCITIAGAAAAAAGCITAIGIAACITCATITCCATAICCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TATTTTATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                            ATAGCTTGGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                   TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                Length 7445;
                                                                                                                                                                                                                                                                                           510 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCT
                                                                                                                                                                                                                                                            1; Indels
                                                                                                                                                                                                                             Score 601.4; DB 3;
Pred. No. 2.6e-141;
0; Mismatches 1;
   FILE REFERENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/09/419,568F
CURRENT FILING DATE: 1999-10-18
FRIOR APPLICATION NUMBER: US09/354,243
PRIOR FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR APLICATION NUMBER: US09/178,973
FRIOR FILING DATE: 1998-10-26
SEQ ID NO 8
                                                                                                                                                                                                                             53.7%;
                                                                                                                                                                                                                                                              Matches 602; Conservative
                                                                                                                                                       TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 11
US-09-354-243B-8
                                                                                                                                           LENGTH: 7445
                                                                                                                                                                                                   JS-09-419-568F-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7135
                                                                                                                                                                                                                                                                                                                       6535
                                                                                                                                                                                                                                                                                                                                                     570
                                                                                                                                                                                                                                                                                                                                                                                 6595
                                                                                                                                                                                                                                                                                                                                                                                                                                            6655
                                                                                                                                                                                                                                                                                                                                                                                                                630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         690
                                                                                                                                                                                                                                  Query Match
                                                                                                                                                                                                                                                Local
                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
```

8 6 8

원

ò

셤 ઠે g &

ठे

à

à

ò

ò

ઠે

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
TITLE OF INVENTION: (TIF8)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                     5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1049 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCA 1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  809
                                                                                                                                                                                                                                                                                                  569
                                                                                                                                                                                                                                                                                                                                                                    629
                                                                                                                                                                                                                                                                                                                                                                                                                                         689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                         ATAGCTTGGAGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTCGGCTCAGTTGAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TATTTTATATATGTAAGTTTATTATATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATATIGATTTATTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                  510 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                   GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATATITITATIGICACIGATGATACAACAGAAAAATAATGTACTITAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                ;
                                                                                                                                                                                                                                Length 5935;
                                                                                                                                                                                                                              49.6%; Score 555.2; DB 3; 96.0%; Pred. No. 1.1e-129; iive 0; Mismatches 23;
; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: USO9/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR PLILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 29
; LENGTH: 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 29, Application US/09354243B; Patent No. 6359117; GENERAL INFORMATION:
                                                                                                                                                                                                                                            Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                                                           TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1109 TAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 14
US-09-354-243B-29
                                                                                                                                                                                              US-09-419-568F-29
                                                                                                                                                                                                                                                                                                                                  5221
                                                                                                                                                                                                                                                                                                                                                                    570
                                                                                                                                                                                                                                                                                                                                                                                                                                         630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5701
                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 29, Application US/09419568F
Patent No. 6331613
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible 1
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 543.2
CURRENT APPLICATION NUMBER: US/09/419,568F
                                                                                                                                                                                                                                                                                                                  5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 1048
                                                                                                                                                                                                                                                                                                    TCTGAGAAAATGCTTGCGTCTGAGCGAGAAAAGCTAGAAAACGAAGAAGATGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATATGGATTTATTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATATTTTATTGTCATTGATATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCCATTTCCATATCCAA
                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                1;
                                                                                                                                                                                                          49.6%; Score 555.2; DB 3; Length 5935; 96.0%; Pred. No. 1.1e-129; Live 0; Mismatches 23; Indels 1;
                                                                                                                                                                                                                                                                                  AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGC
 TITLE OF INVENTION: (TIF8)
TITLE OF INVENTION: The Proteins Encoded,
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
SEQ ID NO 17
                                                                                                                                                                                                                              Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                                                        TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAAA 5824
                                                                                                                                                                            US-09-178-973B-17
                                                                                                                         5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5581
                                                                                                                                                                                                                                                                                                                5221
                                                                                                                                                                                                                                                                                                                                                                                      5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                         5341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1109
                                                                                                                                                                                                                                                                                  510
                                                                                                                                                                                                                                                                                                                                                  570
                                                                                                                                                                                                                                                                                                                                                                                                                        630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5821
                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          990
```

쉽

Š

Š g ò 셤 ઠે g 8 6

셤 ઠે g

ò

유 δ 원 ઠે 셤 ઠે 셤

```
TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                             1191
                                                                                                                                                                         US-10-084-298-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            489
                                                                                                                                                                                                                                σ
                                                                                                                                                                                                                                                   28
                                                                                                                                                                                                                                                                      69
                                                                                                                                                                                                                                                                                        88
                                                                                                                                                                                                                                                                                                           129
                                                                                                                                                                                                                                                                                                                                                 189
                                                                                                                                                                                                                                                                                                                                                                   208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                           용
                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                ठ
                                                                                                                                                                                                                                                                                                                                                                            5580
                                                                                                                                                                                                                                                                                                                                                                                                                  5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                      5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5280
                                                                                                                                                                                                                       5340
                                                                                                                                                                                                                                                      ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 1048
                                                                                                                                                                                                                                                                                                                                        5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520
                                                                                                                                                                                                                                                                                                                                                                                                                                     989
                                                                                                                                                                                                                                                                                                                                                           869
                                                                                                                                                                                                                                                                                                                                                                                                929
                                                                                                                                                               569
                                                                                                                                                                                                    629
                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA 689
                                                                                                                                                                                                                                                                                749
                                                                                                                                                                                                                                                                                                                                                                                                          GCTAACGTCCATCATCATTAGAAGATTTCACATGAAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                             5521 ATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                AGGAGGTTACCTCTCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAAGAACCTTCCT
                                                                                                                                                                                                                                                                                                                     TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAAGTTCATTGACA
                                                                                                                                                                                                                                                                                                                                                          ATAITITIATIGICACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                     510 AAAGCTTGGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1, Application US/10084298
Patent No. 6939545
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: Fouser, Lynette
APPLICANT: Spaulding, Vikki
APPLICANT: Xuan, Dejun
IITLE OF INVENTION: Composition and Method for Treating Inflammatory
                                                                                                                                             1;
                                                                                                                           Length 5935;
                                                                                                                         49.6%; Score 555.2; DB 3; Length 96.0%; Pred. No. 1.1e-129; ive 0; Mismatches 23; Indels
FILE REFERENCE: LUD 5543.1
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
LENGTH: S935
                                                                                                                           Query Match
Best Local Similarity 96.0
Matches 580; Conservative
                                                                             TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAAA
                                                                                                        US-09-354-243B-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 15
US-10-084-298-1
                                                                                                                                                                                                                                                                                                                                                            810
                                                                                                                                                                                                                                                                                                                                                                                                                                      930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1049
                                                                                                                                                                                                                                                                                                                       750
                                                                                                                                                                                                                                                                                                                                                                                                 870
                                                                                                                                                                                                                                                                                                                                                                                                                                                         5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1109
                                                                                                                                                                                   5221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5821
                                                                                                                                                                                                      570
                                                                                                                                                                                                                                           630
                                                                                                                                                                                                                                                              5341
                                                                                                                                                                                                                                                                                                    5401
                                                                                                                                                                                                                                                                                 690
                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                              8 è
                                                                                                                                                                                                                                                                                                                                    8 6 8
                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                   셤
                                                                                                                                                                                                     ò
                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                    ⋧
                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                8
```

```
368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AACCTGGCTCAGTTGAAAAAAAAAATAGTGTCAA--GTTGTCCATGAGACCAG-AGGTAG 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        249 AGATAACAACACACGCTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGCTAA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                568 ACTGGATTIGCTGTTTATGTCTCTGAGAATGCCTGCATTTGACCAGAGCAAAGCTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     588 Trittaaccaaaaggaagargggaagccaaacrccarcargarggggggarrcaaarga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   268 TGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGAGTCAGTATGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           328 TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    388 TCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGGAACATCCAGAAGAATGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   448 caacagectaagcacateteatatrgaaggtgatgacetecatatecagaggaatgtgca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AACGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTTA----CTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 148 crinderacidedadedaderacececenteacereceacideadecridacaagrecaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 309 AGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACGTTCTGCTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            369 CCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAACTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAAGCTGAAGGACACAGTGAAAAAGCTTGGAGAGAGAGGGAGAGATCAAAGCAATTGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crecrrecedarcaccagniceregaennagaannerengeaangecegeeerecagaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGGCCCAGGAGAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1191;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
47.8%; Score 535.2; DB 3;
Best Local Similarity 73.4%; Pred. No. 5.7e-125;
Matches 843; Conservative 0; Mismatches 268;
TITLE OF INVENTION: Disorders
FILE REFERRNCE: GIS358 CIP
CURRENT APPLICATION NUMBER: US/10/084,298
CURRENT FILING DATE: 2002-09-10
PRIOR APPLICATION NUMBER: 60/270,823
PRIOR FILING DATE: 2001-02-23
PRIOR FILING DATE: 2001-04-03
PRIOR APPLICATION NUMBER: 60/131,473
PRIOR FILING DATE: 1999-04-28
PRIOR APPLICATION NUMBER: 09/561,811
PRIOR PILING DATE: 1999-04-28
PRIOR PILING DATE: 1999-04-28
NUMBER OF SEQ ID NOS: 10
SEQ ID NO 1
```

11,

Search completed: December 20, 2005, 21:39:14 Job time : 130.661 Becs

THIS PAGE BLANK (USPTO)

11/2 Page Blank (uspto)

```
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
                                                                                               (without alignments)
16534.837 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 40, P
Sequence 42, P
Sequence 10, P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 29, R
Sequence 29, R
Sequence 1, R
Sequence 1, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 42, 1
Sequence 40,
                                                                                December 20, 2005, 13:17:16 ; Search time 559.633 Seconds
                                                                                                                                                   1119
1 taaacaggststsststsas......tggatatsataaaaaaaa 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3, 7
Sequence 3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 9, 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 7,
Sequence 3,
Sequence 3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 37,
Sequence 37,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 7,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 37
Sequence 8,
Sequence 8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Description
                                                                                                                                                                                                                                                                                                                                                                                                        / cgn2_6/ptodata/1/pubpna/US07_puBCOMB.seq:*
/ cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
/ cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
/ cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
/ cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 US-09-751-797-7
5 US-10-627-273-7
5 US-10-264-298-3
6 US-10-264-298-3
8 US-10-873-972-3
10 US-11-157-387-3
3 US-09-751-79-9
7 US-10-627-273-9
5 US-10-104-919-42
8 US-10-90-365-40
5 US-10-90-365-40
5 US-10-90-365-40
7 US-10-90-365-40
7 US-10-90-365-37-10
9 US-11-045-944-40
3 US-09-746-375-37
7 US-11-045-944-40
3 US-09-746-375-37
7 US-10-395-741B-37
                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters
                                                                                                                                                                                                                                                                                                                                                                                               Published_Applications_NA_Main:*
                                                                                                                                                                                                                                       9793542 segs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-084-298-1
                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                      OM nucleic - nucleic search, using sw model
                                                                                                                                                                                              IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                             Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                     US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11119
1166
1166
11166
11111
1050
1050
1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7445
7445
5935
5935
11177
11177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
             Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11107.8
11107.8
11107.8
11107.8
1047.8
9933.2
9933.2
9933.2
9933.2
9933.2
9933.2
9933.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601.4
601.4
555.2
535.2
535.2
535.2
                                                                                                                                                     Perfect score:
                                                                                                                                                                                               Scoring table:
                                                                                                                                                                     Sequence:
                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                Database
                                                                                 Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Result
```

Appli Appli Appli	Appli	App	App	App	App	App	App	App	App	App	App						
,,,,	1,	125,	153,	153,	153,	153,	153,	153,	153,	153,	243,	125,	125,	125,	243,	153,	125,
Sequence Sequence Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
77-1 72-1 387-1	574-1	500-125	547-153	16-153	69-153	13-153	15-153	12-153	102-153	149-153	384-243	796-125	173-125	194-125	163-243	54-153	:69-125
US-10-256-977-1 US-10-873-972-1 US-11-157-387-:	US-09-870-574-3	US-10-006-86/-1	US-10-063-547-1	US-10-063-531-3	US-10-063-569-1	US-10-063-513-1	US-10-063-515-1	US-10-063-512-153	US-10-063-502-1	US-10-063-549-1	US-10-227-884-	US-10-002-796-1	US-10-066-273-	US-10-066-494-	US-10-230-163-24	US-10-063-554-1	US-10-066-269-12
9 10	m L	ი თ	ស្ន	n n	Ŋ	Ŋ	S	Ŋ	Ŋ	ß	Ŋ	Ŋ	വ	ഹ	ហ	'n	Ŋ
1191 1191 1191	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152	1152
47.8 47.8 47.8	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
535.2 535.2 535.2	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8
2 2 4 2 5 5 4 6	27	2 6 7 7	30	35	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

```
Sequence 7, Application US/09751797

Sequence 7, Application US/09751797

Patent No. US20010024652A1

GENERAL INFORMATION:

APPLICANT: Doubled, Jamila

APPLICANT: Renauld, Jamila

APPLICANTION: (TIF8) The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5543.2

CURRENT APPLICATION NUMBER: US/09/751,797

CURRENT FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 AGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 ATTGCCCTGTGGGCCCAGGAGGCAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAACAGGCTCTCCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 1119; DB 3; Best Local Similarity 100.0%; Pred. No. 1.1e-223; Matches 1119; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                           1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-751-797-7
US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

```
240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                   121 ATTGCCCTGTGGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                      9
                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGAGGTACCTTTCCTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGACTTTTTTACTAAAGGGAAAGTGAGAAGCTAACGTCACCATCATCATTAGAAGATTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACTTGATAACCACAAAAGATTCATTGACAATATTTTTATTGTCACTGATGATACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                 AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT
                                                                                                                                                                                                                                                                                                                                                                                                      CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAACTCAGCAATCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGACTTTTTACTAAAGGAAAGTGAGGAAGCTAACGTCCATCATTAGAAGATTTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAA
                                                                                                                                                                                                        CTGCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTGCTTCTC
                                                                                                                                                                                                                                       ATTGCCCTGTGGGGCCCAGGAGGAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                             GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                        GIGICCAACTICCAGCAGCCGTACATCGTCAACCGCACCTITATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                     AGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGTCAGAAGGCTGAAGGAGACAGTGAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATTGGGGAACTGGACCTGCTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATGAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                     Gaps
                                                                                                                                                                 ő
                                                                                                                                              Length 1119;
                                                                                                                                                                  Indels
                                                                                                                                              ; Score 1119; DB 7;
; Pred. No. 1.1e-223;
0; Mismatches 0;
PRIOR APPLICATION NUMBER: US/09/751,797
PRIOR FILING DATE: 2000-12-29
PRIOR APPLICATION NUMBER: 09/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                               100.0%;
100.0%;
                                                                                                                                            Query Match
Best Local Similarity 100.
Matches 1119; Conservative
                                                                                                       ORGANISM: Mus musculus
                                                                                    LENGTH: 1119
                                                                                                                          US-10-627-273-7
                                                                                                                                                                                       ᆏ
                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                             TYPE: DNA
                                                                                                                  FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                             qq
                                                                                                                                                                                                                                                                                                                                                                                                                                      $
                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                     g
                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                       ठ
                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cell Inducible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 961 GTATACATTTTATTTTATGTCAGTTTATTAATATGGATTTATTATAAGAAAACATTATCTGC 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATAA 960
                                                                                                                                                          540
                                                                                                                                                                    ATTGGGGAACTGGACCTGCTGTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA 600
                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                 840
                                                                                                                                                                                                                                                                                                                                                                                     840
                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                  360
                                                      360
                                                                          420
                                                                                           CTGCTCCCCCAGTCCAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC 420
                                                                                                                  AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG 480
                                                                                                                                                                                                                                         AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA 660
                                                                                                                                      AAACTCAGCAATCAGCTCCAGCTCCACATCAGCGGTGACGACCAGAACATCCAGAAG 480
                                                                                                                                                                                                                                                    AAATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAA
                                                                                                                                                                                                                                                                                                                         ATGAAACCTGGCTCAGTTGAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                   GTATACATTTTATTTATGTCAGTTTATTAATAGGATTTATTATAGAAACATTATCTGC
 AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT
                                                                          CTGCTCCCCCAGTCCAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC
                                                                                                                                                          Sequence 7, Application US/10627273

Publication No. US20040110189A1

GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Tolated Nucleic Acid Molecules which Encode T C
TITLE OF INVENTION: TIFS) The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543.2

CURRENT APPLICATION NUMBER: US/10/627,273

CURRENT PILING DATE: 2003-07-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 2
US-10-627-273-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1081
                                                                                                                                                                                                                     541
                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                           841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                                  301
                                                                           361
                                                                                             361
                                                                                                                   421
                                                                                                                                      421
                                                                                                                                                                                                   541
                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                                                                                      781
                                                                                                                                                                                                                                                                                                                                                                                                                              841
                                                                                                                                                                                                                                                                                                                                                                                                                                                  901
                                                       301
                                                                                                                                                          481
                                                8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                       엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>ራ</u> 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                           ð
```

383 420 443 480 540

563

503

900

9

683

720 743 780

8 6

```
TATTGATATTTAGTATAAGGCAAATAATTTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTATACATTTTATTTTATGTCAGTTTATTATATGGATTTATTATAGAAACATTATCTGC 1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1044 TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1103
                                                                                                                                                                                                                                                                                               924 AGCTTATGTAACTTCCATAACCAATATTTTATATGTAAGTTTATTATTATAA 983
                                                                                                                                                                                                                                                                                                                                                       AGCTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATAAA
              AGCCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGGGAAAACTGTTCCGAGGAGTC
                                                                                                                                                                                 444 AAACTCAGCAATCAGCTCCAGTCACATCAGCGGTGACGACAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          744 AIGAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAA
                                                                                                            AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACAGCAGCACAGAACATCCAGAAG
                                                                                                                                                                                                                                          504 AATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGTGGAGAGAGTTCAAGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                 684 TGGACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTATTAGAAGATTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACTIGATAACCACAAAGATICATIGACAATATITITATIGICACTGATGATACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               864 AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACGTT
                                                                     AGTGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGAGACGTT
                                                                                                                                                                                                                                                                                                                                                                                                  TGGACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                            AATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTTGGAGAGTGGAGAGATCAAGGCG
                                                                                                                                                                                                                                                                                   ATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAGA
                                                                                                                                                                                                                                                                                                                                          AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 3, Application US/10256977
Publication No. US20030157106A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Dituman, Debra
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Stan, Dejun
ITILE OF INVENTION: Composition and Method for Treating Inflammatory
ITILE OF INVENTION: Disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1104 TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081 TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 4
US-10-256-977-3
241
                          264
                                                     301
                                                                                324
                                                                                                                                        384
                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                     624
                                                                                                                                                                                                                                                                                                                                                                                                  199
                                                                                                                                                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1021
                                                                                                            361
                                                                                                                                                                    421
                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961
                                                   ò
                                                                       셤
                                                                                                   &
                                                                                                                                   셤
                                                                                                                                                                   8
                                                                                                                                                                                       쉽
                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                           TATTGATATTTAGTATAAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCGGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                83
                                                                                                                                                                                                                                                                                                                           AGCTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATAAA
                                                                                 GTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATATGAAACATTATCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAAACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTGCCCTGTGGGCCCAGGAGGCAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTGTCCAACTTCCAGCCAGCCATACATCGTCAACGCCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                 TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAAACAGGCTCTCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 99.0%; Score 1107.8; DB 5; Length Best Local Similarity 99.4%; Pred. No. 2.5e-221; Matches 1112; Conservative 0; Mismatches 7; Indels
                                                                                                                                                                                                                                        TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                       TTAGGCTTTAATAAACACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 1166
                                                                                                                                                     961
                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                        1081
                                        841
                                                                  901
                                                                                           901
                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              144
                                                                                                                           961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       204
```

840

803

863

900

923

960

1020

셤

8

g

8

8 8 8

```
TATTGATATTTAGTATAAGGCAAATAATTTATGACAATAACTATGGAAACAAGATATC 1080
                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Li, Jing
APPLICANT: Li, Jing
APPLICANT: Tan, Xiang-Yang
APPLICANT: Towkinson, Kathleen N.
APPLICANT: Towkinson, Kathleen N.
APPLICANT: Towkinson, Kathleen N.
APPLICANT: Pittman, Debara D.
APPLICANT: Veldman, Geetruida M.
FILE REFREBNCE: AMI01524
CURRENT FILING DATE: 2004-06-22
PRIOR APPLICATION NUMBER: US 60/480,652
PRIOR PILING DATE: 2002-02-25
PRIOR APPLICATION NUMBER: US 60/270,823
PRIOR PILING DATE: 2001-04-03
PRIOR PILING DATE: 2001-04-03
PRIOR FILING DATE: 2001-04-03
NUMBER OF SEQ ID NOS: 10
SOFTWARE: Patentin version 3.1
SEQ ID NOS: 10
S
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGC 1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                       841 AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAA 900
                                                                                                                                                                                                                                                                                                     901 AGCTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATATAA 960
                                                                                                                                                                                                                                                                                                                                     1 TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24 TAAACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCGTCT
            ATGAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 99.0%; Score 1107.8; DB 8; Length 1166; Best Local Similarity 99.4%; Pred. No. 2.5e-221; Matches 1112; Conservative 0; Mismatches 7; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Traggerirrahrahacacargeararcarahahahaha 1142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 3, Application US/10873972; Publication No. US20050042220A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ) ORGANISM: Mus musculus
US-10-873-972-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 1166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1104
                 721
                                                                                                                                                                                                                                                                                                                                                       924
                                                                                                                                                                                                                                                                                                                                                                                                       961
                                                                                                                                                                                                                                                                                                                                                                                                                                                          984
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                     셤
                                                                                                            ò
                                                                                                                                                            셤
                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAAACATCCAGAAG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCCTTGCAGATAACAACACACACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGCTCCCCCAGTCCAGGCTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      24 TAAACAGGCTCTCCTCTCTGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGACTTTTTTACTAAAGGAAAGTGAGAAGCTAAACGTCCATCATTAGAAGATTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGTCAGAAGGCTGAAGGAGACAGTGAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTGGGGAACTGGACCTGTTTATGTCTCTGAGAATGCTTGCGTCTGAGCGAGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 TAPACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 1107.8; DB 6; Length
Pred. No. 2.5e-221;
0; Mismatches 7; Indels
FILE REFERENCE: GI5358 CIP

CURRENT APPLICATION NUMBER: US/10/256,977

CURRENT FILING DATE: 2002-09-27

PRIOR APPLICATION NUMBER: US/10/084,298

PRIOR APPLICATION NUMBER: 60/270,823

PRIOR FILING DATE: 2001-09-10

PRIOR FILING DATE: 2001-02-23

PRIOR FILING DATE: 2001-04-03

PRIOR PILING DATE: 2001-04-03

PRIOR PILING DATE: 1999-04-28

PRIOR FILING DATE: 1999-04-28

PRIOR FILING DATE: 2000-04-28

PRIOR FILING DATE: 2000-04-28

PRIOR FILING DATE: 2000-04-28

PRIOR PILING DATE: 2000-04-28

PRIOR PILING DATE: 2000-04-28

SOFTWARE: PARENTIN VEY: 2.1

SOFTWARE: PARENTIN VEY: 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 99.4%;
Matches 1112; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Murine US-10-256-977-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            324
                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
```

a ò 셤 ò

8

8 8 8

8 8

8 ď ð g ò 9 83

g

g ð g

ò

g ò

ò

```
204 GTGTCCAACTTCCAGCAGCCATACATCGTCAACGCACCTTTATGCTGGCCAAGGAGGCC 263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGCCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACC 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 AGCCTTGCAGATAACAACACACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG 480
        PAPLICANT: Jacous, neumecus
APPLICANT: Jacous, neumecus
APPLICANT: Spaudiding, Vikki
APPLICANT: Nuan, Dejun
TITLE OF INVENTION: Disorders
FILE REFERENCE: G15358 CIP
CURRENT APPLICATION NUMBER: US/11/157,387
CURRENT APPLICATION NUMBER: US/10/084,298
FRIOR FILING DATE: 2005-06-20
FRIOR PELING DATE: 2002-09-10
FRIOR FILING DATE: 2001-04-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               144 ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCGGTCAACACCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AATGTCAGAAGGCTGAAGGAGAGAGAGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     504 AATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGTGGAGAGAGTTCAAGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 TAAACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAACTCAGCAATCAGCTCCAGCTCCTGTCACCATCAGCGGTGACGACGACAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 99.0%; Score 1107.8; DB 10; Length 1166; Best Local Similarity 99.4%; Pred. No. 2.5e-221; Matches 1112; Conservative 0; Mismatches 7; Indels 0; 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-157-387-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   264
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TATTGATATTTAGTATAAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC 1103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCTTATGTAACTTCATTTCCATATCCAATATTTATATATGTAAGTTTATTATTATAA 960
                                                                                                                                                                                                                                                                                                 CTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACC 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GACTIGATAACCACAAAGAITCAITGACAATAITITAITGICACTGAIGAIACAACAGAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 923
                                                             240
                                                                                                                                       AGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTC 300
                                                                                                                                                                                                                                                443
                                                                                                                                                                                                                                                                                                                                                                                 480
                                                                                                                                                                                                                                                                                                                                                                                                                    503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGACTTTTTACTAAAGGAAAGTGAGAAGCTAAACGTCCATCATTAGAAGATTTCAC 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTGGGGAACTGGACCTGCTGTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCCTTTTAGAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCACTTTAGAAAAAA
AGCCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTC
                                                                                                                                                                                                                   AGIGCTAAAGAICAGIGCTACCTGAIGAAGCAGGIGCTCAACTICACCCTGGAAGACGIT
                                                                                                                                                                                                                                                                                                                            AAACTCAGCAATCAGCTCCAGCTCCTGTCACAGTGACGACGACGAGCATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCCATCATTATTAGAAGATTTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGAAACCTGGCTCAGTTGAAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAA
                                                                                  GTGTCCAACTTCCAGCCACCATACATCGTCAACCGCACCTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                 AAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGTGGAGAGATCAAGGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTGGGGAACTGGACCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC
                                                             GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1104
                                                                                                                                       241
                                                                                                                                                                              264
                                                                                                                                                                                                                                                          324
                                                                                                                                                                                                                                                                                                                                        384
                                                                                                                                                                                                                                                                                                                                                                                                                    444
                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     804
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 864
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               924
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         984
                                                             181
                                                                                                  204
                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ď
                                                                                        요
                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                음 성 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             કે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8
                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ર્જ
```

ô

83

240

180 203 360

420

383

540

563 900

503

623

601 AGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAA 660

541 ATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA 564 ATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGA

ò 셤 ò

US-11-157-387-3 ; Sequence 3, Application US/11157387 ; Publication No. US20050238648A1 ; GENERAL INPORMATION:

```
1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1080
                                                                                                                                                                                                                                                                                                                                                                                                                                         842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960
                                                                            CCTTGCAGATAACAACACGAGCTCCGGCTCATCGGGGAGAAACTGTTCCGAGGGGTCAG 302
                                                                                                                                                                                                ACTCAGCAATCAGCTCAGCTCCTCTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 482
                                                                                                                                                                                                                                        542
                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                         999
                                                                                                                                                                                                                                                                                                                                                            722
                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                                                                                                                                                                                                   782
                                                                                                                                                                                                                                                                                                                                                                                                                      780
                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 902
                   180
                                      242
                                                          240
                                                                                                                     362
                                                                                                                                       360
                                                                                                                                                           422
                                                                                                                                                                     602
                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                     662
 182
                                                                                                                                                                                                                                                                                                                                                            CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AIRARIGIRCTITRARARARITGITIGRARGGGGGTIRCCTCTCAITCCTITRGRARARGGGGGTIRCCTITICAITIRGALARARGGGGGGTIRCCTCTCAITCTTAGALARAGAGGGGGGTIRCCTCTCCTTAAAAAATTGITIGAAAGGGGGGTIACCTCTCCAITCCTCTAGAAGAAAAGAGGAGGTIACCTCTCAITCCTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTCAGAAGGCTGAAGGAGACAGTGAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACATTTTATTTTATCAGTTTATTAATATGGATTTTATAGAAACATTATCTGCTA
                                                                                                                                TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                         CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTATGTAACTTCCATTATCCAATATTTTATATATGTAAGTTTATTATAAGT
          GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                  GTCCAACTTCCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                     TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                         TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                            GCTCCCCCAGTCCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGGCTTTAATAAACACATGGATATCATAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 8
10S-10-627-273-9
Sequence 9, Application US/10627273
; Publication No. US20040110189A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1081
                    121
                                         183
                                                            181
                                                                               243
                                                                                                   241
                                                                                                                       303
                                                                                                                                                             363
                                                                                                                                                                                 361
                                                                                                                                                                                                    423
                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                 543
                                                                                                                                                                                                                                                                                                                       603
                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                              663
                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                      723
                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                            783
                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                963
  123
                                                                                                                                          301
                                                                                                                                                                                                                                           483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                  8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                   요 양
                                                                                                                                                                          g
                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                  8 G
                                                                                                                                                                                                                                                                                                                                                        õ
               셤
                                    & B
                                                                         ∂
                                                                                              셤
                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                           Sequence of Application US/09751797

Sequence No. US200100246521

Sequence No. US200100246521

GENERAL INFORMATION:

APPLICANT: Dumoutier. Laure

APPLICANT: Dumoutier. Laure

APPLICANT: Louhed, Jamila

APPLICANT: Louhed, Jamila

TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: (1990-12-29)

CURRENT APPLICATION NUMBER: US09/178, 568

PRIOR PLING DATE: 1999-10-18

PRIOR APPLICATION NUMBER: US09/178, 973

PRIOR APPLICATION NUMBER: US09/178, 973

SEQUID NOS: 29

SEQUID NOS: 29
                                                                                                                                                                                                                                                                      GTATACATTTTATTTATCGCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGC 1020
                                                                                                                                                                                                                                             ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                               GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCAT 122
                                                                                 AGCTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATAA 960
                                                                                                                                 GACTIGATAACCACAAAGATICATIGACAATATITITATIGICACIGAIGATACAACAGAA 863
                                                                                                                                                    AAATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAA 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                            GACTIGATAACCACAAAGATICATIGACAATAITITIATIGICACIGAIGAIACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1111,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    32; Indels
                                                                                                                                                                                                                                                                                                              Query Match 93.6%; Score 1047.8; DB 3; Best Local Similarity 97.0%; Pred. No. 8.6e-209; Matches 1078; Conservative 0; Mismatches 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                               RESULT 7
US-09-751-797-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; FEATURE:
US-09-751-797-9
                                                                                                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                                                                                  1104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                63
                                                                                                                                                                                                                                                                                           1044
                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                       864
                                661
                                                   684
                                                                       721
                                                                                         744
                                                                                                              781
                                                                                                                                  804
                                                                                                                                                      841
                                                                                                                                                                                           901
                                                                                                                                                                                                               924
                                                                                                                                                                                                                                  961
                                                                                                                                                                                                                                                      984
             624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE
                                              6 6 6 6 6 6 6 6 6 6 6
                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ⋩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
             유
유
```

```
961 ATACATTTTATTTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                              1021 TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                                   ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGCTA 1022
                                                                                                                                781 CTTGATAACCACAAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                            962
                                                                                                                                                                                                                                                                                               960
                                                                       780
                                                                                                          CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA 842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGCCCTGTGGGCCCAGGAGGAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT 182
661 GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT 720
                                                                                                                                                                                  843 ATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                      CTTATGTAACTTCCATATCCATATTTTATATATGTAAGTTTATTATATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 PACAGGCTCTCTCTCTCTATATCAACTTTTGACACTTGTGCGATGGGATGGCTGTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAGADATCTATGACTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCAT
                                                                                                                                                                                                                                                                                               901 CCTATGTAACTTCATTACCATAACCAATACTTTATATGTAAGTTTATTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                             TTGATATTT-AGTATAAGGCAAATAATATTATGACAATAACTATGGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ï
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 993.2; DB 5;
Pred. No. 2.2e-197;
0; Mismatches 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 40, Application US/10090365
| Publication No. US20030077706A1
| GENERAL INFORMATION:
| APPLICANT: Presnell, Scott R.
| APPLICANT: Fresnell, Scott R.
| APPLICANT: Kindsvogel, Wayne
| APPLICANT: Kindsvogel, Wayne
| TITE OF INVENTION: Mouse Cytokine Receptor FILE REFERENCE: 01-08
| CURRENT FILING DATE: 2002-03-04
| PRIOR PRILING DATE: 2002-03-04
| PRIOR PLILING DATE: 2001-03-02
| PRIOR FILING DATE: 2001-03-02
| PRIOR FILING DATE: 2001-03-02
| RIOR FILING DATE: 2001-03-02
| NUMBER OF SEQ ID NOS: 49
| SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TAGGCTTTAATAAACACATGGATATCATAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 97.2%;
Matches 1021; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40
                                                                                                            783
                                                                                                                                                                                                                                                                                                                                     963
                                                                                                                                                                                                                                                                                                                                                                                                               1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       123
                                                                                                                                                                                                                                                            903
                                                                     g
                                                                                                                                           g
                                                                                                                                                                                  Š
                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                  ð
                                                                                                    ठ
                               APPLICANT: Louded, Jamila APPLICANT: Louded, Jamila APPLICANT: Louded, Jamila APPLICANT: Louded, Jamila APPLICANT: Renauld, Jean-Christophe TITLE OF INVENTION: ISOlated Nucleic Acid Molecules which Encode T Cell Inducible Fac TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof TITLE OF INVENTION: (1979) The Proteins Encoded, and Uses Thereof CURRENT APPLICATION NUMBER: US/10/627,273

CURRENT FILING DATE: 2003-07-25

PRIOR APPLICATION NUMBER: US/09/751,797

PRIOR APPLICATION NUMBER: 09/419,568

PRIOR APPLICATION NUMBER: US/9419,568

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGTGACGACCAGCAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTAGAAAAACGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GACTITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT 722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGT 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTCCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGGTGCCTTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541 cgcccaacrccaccrccrcrrrrargrcrcrcagaaarccrrccgrcrcagccaagaagaag 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGCGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ä
                                                                                                                                                                                                                                                                                                                                                                                                                               Score 1047.8; DB 7; Length
Pred. No. 8.6e-209;
0; Mismatches 32; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 93.6%;
Best Local Similarity 97.0%;
Matches 1078; Conservative
                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Mus musculus
 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                    LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                            US-10-627-273-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
```

```
361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGGTCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421 ACTCAGCAATCAGCTCACTCTCTCACATCAGTGGTGACGACCAGAACAACATCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                           1 AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGGCTGTCGCCCT
                                                                                                                                                                                                                                                                                                                                                                                       CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTGCAGATAACAAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCTCCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                    123 TOCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                         3 AACAGGCTCTCTCTCTTATCAACTGTTGACACTTGTGCGATCTCTGATGCCTGTCCT
                                                                                                                                                                                                                                                             ; Score 993.2; DB 5;
; Pred. No. 2.2e-197;
0; Mismatches 28;
OF INVENTION: Human Cytokine Receptor
         CURRENT APPLICATION NUMBER: US/10/104,919
CURRENT PILING DATE: 2002-03-23
PRIOR APPLICATION NUMBER: US 60/279,222
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 62
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 42
                                                                                                                                                                                                                                                             Query Match 88.8%;
Best Local Similarity 97.2%;
Matches 1021; Conservative
                                                                                                                                                      TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                              (589)
                                                                                                                                                                                                 ; NAME/KEY: CDS
; LOCATION: (5)
US-10-104-919-42
                                                                                                                                      LENGTH: 1050
                                                                                                                                                                                                                                                                                                                                                                                        63
                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    723
                                                                                                                                                                                     FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                음 장
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACATTTTATTTATCTCAGTTTATTAATATGGATTTATTATATAGAAACATTATCTGCTA 1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTATGTAACTTCATTACCAATACTTTATATATGTAAGTTTATTATTATAAGT 960
                                                                                                                                                    TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 362
                                                                                                                                                                                                                  GCTCCCCCAGTCAGACAGCTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA 422
                                                                                                                                                                                                                                                                                                                                                             541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGAGAAAAAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAAG 900
                              242
                                                                                                         GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                  ACTCAGCAATCAGCTCCAGCTCCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 482
                                                                                                                                                                                                                                                                                                            ACTCAGCAATCAGCTCAGCTCCTGTCAGTGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                             TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGGAAGAAG 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACTITITIACTAAAGGAAAGTGAGAAGCTAAACGTCCATCATTAGAAGATTTCACAT 722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 782
 TGCCCTGTGGGCCCAGGAGGCAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTAGAAAACGAAGAACTGCTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTATGTAACTTCCATTTCCATATCCAATATTTTATATGTAAGTTTATTATTAAGT
                                GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCCAAGGAGGCCCAG
                                                GTCCAACTTCCAGCCACCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                          CCTTGCAGATAACAACACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TIGATATIT - AGTATAAGGCAAATAATAT 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 10
US-10-104-919-42

Sequence 42, Application US/10104919
Sequence 42, Application US/10104919
Publication No. US20030099608A1
GENERAL INFORMATION:
APPLICANT: Presnell, Scott R.
APPLICANT: Xu, Wenfeng
APPLICANT: Kindsvogel, Wayne
APPLICANT: Chen, Zhi
APPLICANT: Chen, Zhi
APPLICANT: Hughes, Steven D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 901
                                                                                          243
                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                          543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      903
                                183
                                                             181
                                                                                                                         241
                                                                                                                                                      303
                                                                                                                                                                                     301
                                                                                                                                                                                                                     363
                                                                                                                                                                                                                                                                                  423
                                                                                                                                                                                                                                                                                                                                              483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
```

240

300 362 360 422 420

302

180

122 120 182

62 9

8 6 8 6

8 6 8 6 8 8

ठे

6666

6 6 6

g

6 6 6

음 중 음 셤 ò g ò

Gaps

1;

Length 1050; Indels 482 480 542 540 602 600 662 9 722 720

721

g

ď

ठ

6 6 6 6 6

셤 ò 셤

```
ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       963 ATACATITIATITATGICAGITIATIAATAIGGATITATIAGAAACATIATCIGCTA 1022
                                                                                                                                                                                                                                                        422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     962
                                                                                                                                     362
                                                                                                                                                                         301 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGAAGAATTCT 360
                                                                                                                                                                                                                                                                                          GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                        482
                                                                                                                                                                                                                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   902
                                                                           241 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661 GACTITITIACTAAAGGAAAGTGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
                                                                                                                                                                                                                                                                                                                                                                                                       CTAGAAAACGAAGAACTGCTCCTTCCTGAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            543 TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGAGGAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541 cecesaacriecaecriecretrianererereasaaaneerrecerereaseaasaas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      843 ATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901 CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                           ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                        TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                                        GCTCCCCCAGTCAGACAGGCTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 42, Application US/10968432
Publication No. US20050065321A1
GENERAL INPORMATION:
APPLICANT: Presnell, Scott R.
APPLICANT: Kindsvogel, Wayne
APPLICANT: Chen, Zhi
APPLICANT: Chen, Zhi
APPLICANT: Chen, Zhi
FILE REFERENCE: 01-12C1
FILE REFERENCE: 01-12C1
CURRENT FILING DATE: 2004-10-19
PRIOR APPLICATION NUMBER: US/10/968,432
CURRENT FILING DATE: 2004-10-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TIGATATITGAGTATAAAGCAAATAATATI 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TIGATATIT-AGTATAAGGCAAATAATAT 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
US-10-968-432-42
                                                                                                                                        303
                                                                                                                                                                                                                                                        363
                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                           423
                                                                                                                                                                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                           243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      723
                                                                  셤
                                                                                                                                        8
                                                                                                                                                                               g
                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                           ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATGCTGCTA 1022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                recerteresecceassas and recertesecarcas accesses as a recent reserves and recent reserves a recent recent reserves a recent recent reserves a recent recent reserves a recent reserves a recent r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                              841 AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAGGAAAAG
                                                                                                             ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA
                              CTTATGTAACTTCATTTCCATATCCAATATTTTATATGTAAGTTTATTATAAAGT
                                                                                                                                                                                                                                                                                    901 CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATTAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10, Application US/10807837

| Publication No. US20040209330A1
| GENERAL INFORMATION:
| APPLICANT: Kindsvogel, Wayne
| APPLICANT: Kindsvogel, Wayne
| APPLICANT: Chandraekcher, Yasmin A.
| APPLICANT: Chandraekcher, Yasmin A.
| APPLICANT: Lehner, Joyce M.
| APPLICANT: Lahner, Joyce M.
| APPLICANT: Sivakumar, Pallavur V.
| APPLICANT: Woore, Margaret U.
| TITLE OF INVENTION: ANTI-IL-22RA ANTIBODIES AND BINDING
| TITLE OF INVENTION: ANTI-IL-22RA ANTIBODIES AND BINDING
| TITLE OF INVENTION: ANTI-IL-22RA ANTIBODIES AND BINDING
| FILE REFERENCE: 03-02
| CURRENT APPLICATION NUMBER: US 60/457,481
| PRIOR FILING DATE: 2003-03-24
| PRIOR FILING DATE: 2003-11-17
| NUMBER OF SEQ ID NOS: 62
| SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 993.2; DB 8;
Pred. No. 2.2e-197;
0; Mismatches 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TIGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGATATTT-AGTATAAGGCAAATAATTT 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 97.2%;
Matches 1021; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (589)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; NAME/KEY: CDS
; LOCATION: (5)
US-10-807-837-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                   781
                                                                                                             843
                                                                                                                                                                                                                                                                                                                                             963
                                                                                                                                                                                                                                                                                                                                                                                                    961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
783
                                                                                                                                                                                                                             903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
```

셤

ò

셤

8 8

ò

셤

ò

```
182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 300
                                           900
                                                                           962
                                                                                                          960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTTGCAGATAACAACACACAGAGGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               303 TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACGTTCT 362
               902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                CCTATGTAACTTCCATTACCATAACCATACTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                               123 TGCCCTGTGGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAAG
                843 ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
                                                                            CITATGTAACTTCCATTTCCAATATATTTATATATGTAAGTTTATTTTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 10; Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match

88.8%; Score 993.2; DB 10
Best Local Similarity 97.2%; Pred. No. 2.2e-197,
Matches 1021; Conservative 0; Mismatches 28
                                                                                                                                                                                                                                                                                                                 Sequence 40, Application US/11045944

Publication No. US20050124796A1

GENERAL INFORMATION:
APPLICANT: Preenall, Scott R.
APPLICANT: Xu, Wenfeng
APPLICANT: Chen, Zhi
TITLE OF INVENTION: Mouse Cytokine Receptor
FILE REPERBREE: 01-08D1
CURRENT APPLICATION NUMBER: US/11/045,944
CURRENT APPLICATION NUMBER: US 60/273,035
PRIOR FILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-02
PRIOR APPLICATION NUMBER: US 60/279,232
PRIOR PLING DATE: 2001-03-04

NUMBER OF SEQ ID NOS: 49
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                                                                                                                                                      TTGATATTT-AGTATAAGGCAAATAATATT 1051
|||||||||||||||||||||||||||||
TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-11-045-944-40
                                                                                                                                                                                                                                                                                                          US-11-045-944-40
                                                                                                                                                                                                                                           1021
                                                                              903
                                                                                                            901
                                                                                                                                             963
                                                                                                                                                                           961
                                                                                                                                                                                                           1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                     셤
                                                                                                                                                                                                           8
                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                        g
                                                                              ò
                                                                                                    음
                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    840
                                                                                                                                                                                                                                                                                                                                                                        CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGGAGAGTGAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAAAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTTGCAGATAACAACACAGAGGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTCAGCAATCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 482
                                                                                                                                                                                                                                                                                                                                                         TGCCCTGTGGGGCCCAGGAAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT 182
                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTAGAAAAAGGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            543 TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                                                         AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                           3 AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                             Gabe
                                                                                                                                                                                                                                                           1;
                                                                                                                                                                                                                        Score 993.2; DB 9; Length 1050;
Pred. No. 2.2e-197;
0; Mismatches 28; Indels 1;
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 10/104,919
PRIOR FILING DATE: 2002-03-22
NUMBER OF SEQ ID NOS: 62
SOFTWARE: FARE/SEQ for Windows Version 3.0
SEQ ID NO 42
                                                                                                                                                                                                                            Query Match
Best Local Similarity 97.2%;
Matches 1021; Conservative
                                                                                                                 TYPE: DNA
ORGANISM: Mus musculus
                                                                                                                                                                               (589)
                                                                                                                                                            ; NAME/KEY: CDS
; LOCATION: (5)
US-10-968-432-42
                                                                                                LENGTH: 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      783
                                                                                                                                                                                                                                                                                                                                                                                                                        123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781
                                                                                                                                                                                                                                                                                                                                                            63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        183
                                                                                                                                                 FEATURE
```

\$ B \$ B \$ B \$

g ઠે ద

ઠે

셤

8 8 8

g 8 8 셤

à 셤 ò g à

ð

8 G

ö

```
Query Match 68.7%;
Best Local Similarity 99.2%;
Matches 772; Conservative (
 ; FEATURE:
; NAME/KEY: CDS
; LOCATION: (47)...(583)
US-09-746-375-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 15
US-10-395-741B-37
                                                                                                                                                        99
                                                                                                                                                                                61
                                                                                                                                                                                                        126
                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                      186
                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                     246
                                                                                                                                                                                                                                                                                                                                                                                                                                               426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               721
                                                                                                                                                                                                                                                                                                                                                  306
                                                                                                                                                                                                                                                                                                                                                                                                  366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                         ઠે
                                                                                                                                셤
                                                                                                                                                       ठ
                                                                                                                                                                            엄
                                                                                                                                                                                                      ò
                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATACATITIATITIATGICAGITITATIAATATGGAITITATITATAGAAAAATIATGIGAIG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGCTA 1022
420
                                                                                  482
                                                                                                         480
                                                                                                                                  542
                                                                                                                                                        540
                                                                                                                                                                                602
                                                                                                                                                                                                                                 662
                                                                                                                                                                                                                                                    999
                                                                                                                                                                                                                                                                             722
                                                                                                                                                                                                                                                                                          GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATITCACAT 720
                                                                                                                                                                                                                                                                                                                          782
                                                                                                                                                                                                                                                                                                                                        842
                                                                                                                                                                                                                                                                                                                                                                                                 840
                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              960
                                     422
                                                                                                                                                                                                        909
                                                                                                                                                                                                                                                                                                                                                                                                                         ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAG 902
                                                  GCTCCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                  ACTCAGCAATCAGCTCCAGTCACATCAGTGGTGACGACCAGAACAACCAGAAGAA
                                                                                                                                              TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGCGGAGAGAGTCAAAGCGAT
                                                                                                                                                                               541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                         CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                       CTTGATAACCACAAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTATGTACTTTAAAAAATTGTTTGAAAGGGGGGTTACCTCTCTTTCCTTAGAAGAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTTATTATTATAAGT
                                     GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                   ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                               CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                   CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                             GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                           GAAACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CITAIGIAACIICAIIICCAIAICCAAIAIIIIAIAIAIAIGIAAGIIITAIIAIAAGI
                                                                                                                                  TTGATATTT-AGTATAAGGCAAATAATATT 1051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TIGATATTIGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 37, Application US/09746375
; Sequence 37, Application US/09746375
; Publication No. US20030170823A1
; GENERAL INFORMATION:
; APPLICANT: Freenell, Scott R.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: NOVEL CYTOKINE ZCYTOLB
; FILE REFRENCE: 99-106
; CURRENT APPLICATION NUMBER: US/09/746,375
; CURRENT FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 60/172,105
; PRIOR PILING DATE: 1999-12-23
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: FASLSEQ for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA ORGANISM: mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
US-09-746-375-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                          361
                                                                                  423
                                                                                                         421
                                                                                                                                                       481
                                                                                                                                                                                543
                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                             663
                                                                                                                                                                                                                                                                                                    199
                                                                                                                                                                                                                                                                                                                          723
                                                                                                                                                                                                                                                                                                                                                  721
                                                                                                                                                                                                                                                                                                                                                                                                                         843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1023
              301
                                     363
                                                                                                                                 483
                                                                                                                                                                                                                               603
                                                                                                                                                                                                                                                                                                                                                                           783
                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       903
                                                                                                                                                                                                                                                                                                                                              qq
                                                     셤
                                                                                                    유
                                                                                                                                                  셤
                                                                                                                                                                               ò
                                                                                                                                                                                                    a
                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                     ઠે
                                                                          કે
                                                                                                                                 ò
                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
```

```
305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                 CCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTC 185
                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                   245
                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAATGT 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAAGATGT 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGAC 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAAACGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGAC 660
                                                                                                                                                                                        301 TAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACGTTCTGCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTTTACTAAAGGAAAGTGAGGAAGCTAACGTCCATCATCATTAGAAGATTTCACATGAA 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661 TITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCACATGAA 720
                                                                                             65
                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCTGGCTCAGTTGAAAAAGAAAATAGTCTCAAGTTGTCCATGAGACCAGAGGTAGAC 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAAGCTA
                                                                                                                                                                                                                                                                                                                                                                                   CAACTICCAGCAGCCGTACATCGTCAACCGCACCTTTAIGCTGGCCAAGGAGGCCAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGAACTGGACCTGCTGTTTATGTCTCTGAGAATGCTTGCGTCTGAGCGAGAAGAAGAAGAA
                                                                                                                   CCTGTGGGCCCAGGAGGAAATGCGCGCTCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAACTICCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCAGATAACAACACAGACGTCCGGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 cccccagrcagacaggrrccagcccracargcaggaggrgcrrrrccrgaccaaacr
                                                                                             6 AGGCTCTCCTCTCACTTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCTGCT
                                                 Gaps
                                              ó
Length 778;
                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Q.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Xu, Wenfeng
APPLICANT: Kindsvogel, Wayne
APPLICANT: Hughes, Steven D.
APPLICANT: Chandrasekher, Yasmin A.
ITLE OF INVENTION: ANTH-IL-TIF ANTIBODIES AND METHODS
TITLE OF INVENTION: USING IN INFLAMMATION
Score 768.4; DB 3;
Pred. No. 1.9e-150;
0; Mismatches 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 37, Application US/10395741B; Publication No. US20040023341A1; GENERAL INFORMATION:
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           605
                                                                                                                                                                                                                                                                                                                                                                                                                      CAACTICCAGCAGCGCAACATCGTCAACCGCACCTITATGCTGGCCAAGGAGGCCAGCCT 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGAACTGGACCTGCTGTTATGTCTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTA 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGAC 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACATGAA 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTGTGGGCCCAGGAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTC 185
                                                                                                                                                                                                                                                                                                           CCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTC 180
                                                                                                                                                                                                                                                                                                                                                                                305
                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGAC 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cccccagrcagacaggrrccagcccracargcaggaggrgcrgrrccrgaccaaagr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCAGATAACAACACAGACGTCCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGCAATCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACAACATCTCAGAAGAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTA
                                                                                                                                                                                                             6 AGGCTCTCCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCA
                                                                                                                                                                                          Gaps
                                                                                                                                                                                          ö
                                                                                                                                                                   Length 778;
                                                                                                                                                                                          Indels
                                                                                                                                                                   Query Match 68.7%; Score 768.4; DB 7; Best Local Similarity 99.2%; Pred. No. 1.9e-150; Matches 772; Conservative 0; Mismatches 6;
FILE REFERENCE: 02-04
CURRENT APPLICATION NUMBER: US/10/395,741B
CURRENT FILING DATE: 2003-03-24
PRIOR PILING DATE: 2002-03-22
NUMBER OF SEQ ID NOS: 67
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 37
TYPE: DNA
                                                                                                         ORGANISM: mus musculus
                                                                                                                             ) NAME/KEY: CDS
; LOCATION: (47)...(583)
US-10-395-741B-37
                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                        186
                                                                                                                                                                                                                                                                                                                                                                                 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    486
                                                                                                                                                                                                                                                        99
                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                126
                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   366
                                                                                                                     FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                              8 8
                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                      Q
                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                영 장
                                                                                                                                                                                                                                                                                                                                                                                                                                          유 상 R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    중 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                               8
```

Search completed: December 21, 2005, 21:07:05 Job time : 562.633 secs

```
29496, A
98, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13313, A
13479, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13443, A
13354, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13303, A
25, Appl
75, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 153, App
Sequence 25, Appl
Sequence 18, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Appl
                                                                                                                                                               December 20, 2005, 13:17:12 ; Search time 78.0229 Seconds (without alignments) 7442.822 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           App1i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13314,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 42, 7
Sequence 153,
                                                                                                                                                                                                                                                                                                                                   1 taaacaggctctcctctcac......tggatatcataaaaaaaaa 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 26,
Sequence 1331
Sequence 1347
Sequence 105,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 7,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence Sequence 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence Sequence Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 2
Sequence 7
Sequence 1
Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Published Applications NA New:*

1: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*

4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

5: /cgn2_6/ptodata/2/pubpna/US01_NEW_PUB.seq:*

7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-177-987-7

US-11-177-987-9

US-11-177-987-8

US-11-177-987-8

US-11-107-240-153

US-11-107-240-153

US-11-107-987-25

US-11-177-987-26

US-11-177-987-26

US-10-995-561-13313

US-10-995-561-13313

US-10-995-561-1335

US-10-995-561-1335

US-10-995-561-1335

US-10-995-561-1335

US-10-995-561-1335

US-11-121-086-25

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88

US-11-121-086-88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-995-561-13303
US-11-121-086-25
US-11-121-086-75
US-10-995-561-13314
US-11-121-086-38
US-11-121-086-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4168288 segs, 259477437 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                        - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                       IDENTITY_NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        B
                                                                                                                                                                                                                                                                            US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     151169
151169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26772
54946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        171486
190276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            47444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              161874
119036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             184868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49.6
46.9
36.6
20.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11119
10477 8
2555.2 4
223.6 2
223.6 2
223.6 2
24.6 2
24.6 2
25.6 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7 2
25.7
                                                                                                                                                                                                                                                                            Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     51
51
50.6
                                                                                                                                                                                                                                                                                                                                                                                          Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Minimum DB
Maximum DB
                                                                                                             OM nucleic
                                                                                                                                                                                                                                                                                                                                      Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database
                                                                                                                                                                    Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Result
No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    υυυ
```

Sequence 13286, A		Sequence 13331, A	Sequence 39052, A	Sequence 105, App	Seguence 52716, A	Sequence 78919, A	Sequence 13314, A	Sequence 13331, A	Sequence 96, Appl		Sequence 59, Appl	Sequence 88, Appl	Sequence 13473, A	Sequence 13460, A	Seguence 13443, A	Sequence 93, Appl	Sequence 13473, A	Sequence 45, Appl	Sequence 95, Appl	Sequence 29613, A	Seguence 46436, A
US-10-995-561-13286	US-10-995-561-13303	US-10-995-561-13331	US-10-750-185-39052	US-11-121-086-105	US-10-995-561-52716	US-10-995-561-78919	US-10-995-561-13314	US-10-995-561-13331	US-11-121-086-96	US-10-750-185-58531	US-11-121-086-59	US-11-121-086-88	US-10-995-561-13473	US-10-995-561-13460	US-10-995-561-13443	US-11-121-086-93	US-10-995-561-13473	US-11-112-908-45	US-11-121-086-95	US-10-750-185-29613	US-10-750-185-46436
1125000 6	9 065107	98716 6	1483 6	171486 7	201 6	201 6	119036 6	98716 6	139054 7	1470 6	162537 7	184868 7	394468 6	20317 6	49979 6	156735 7	194468 6	182314 7	212716 7	1459 6	2703 6
		4.4	4.4		4.3	4.3	4.3	4.3		4.3		4.3.3		4.3	4.3		4.23	4.2.		4.2	4.2
200	. x	49.6	49	49	48.6	48.6	48.6	48.4	48.4	48.2	48	48	48	47.8	47.8	47.8	47.4	47	47	46.8	46.8
24	72	56	27	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	c 43	44	45

ALIGNMENTS

```
APPLICANT: Dumoutier, Laure
APPLICANT: Benauld, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
THE REFERENCE: LUD 5664
CURRENT APPLICATION NUMBER: US/09/626,617
PRIOR PILING DATE: 1999-10-18
PRIOR PILING DATE: 1999-10-16
PRIOR PELING DATE: 1999-07-16
PRIOR PILING DATE: 1999-07-16
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
TENGEN OF THE TOWN THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CIGCAGAAAATCIAIGAGITITITCCCITAAGGGGACITIGGGCCGCCAGCIGCCTGCTTCTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121 ATTGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 TABACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAAACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 1119; DB 7; Best Local Similarity 100.0%; Pred. No. 1.6e-245; Matches 1119; Conservative 0; Mismatches 0;
                                 Sequence 7, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; FEATURE:
US-11-177-987-7
US-11-177-987-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

N

g

8

8 6 8 a ò

```
182
                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                          242
                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  999
                                                                                                                                                                                                                                                                                                                           122
                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                             62
                                                                                                                                                                                                                                                                                                                           GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGGCTAGTATTATTGTTGCTGGCCAAGGAGGCCAGGCCAACGCCAACCGCAACCGCACCTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTTGCAGATAACAACACGAGCTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTCAGCAATCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            543 TGGGGAACTGGACCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACTTTTTTACTAAAGGAAAGTGAGAAGCTAAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                             1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                            TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                                                           AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                     1;
                                                                                                                                                                                                                              Length 1111;
                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                              DB 7;
                                                                                                                                                                                                                                                       32;
                                                                                                                                                                                                                            Score 1047.8; DB 7
Pred. No. 2.5e-229;
0; Mismatches 32;
CURRENT APPLICATION NUMBER: US/11/17,987
CURRENT FILING DATE: 2005-07-07
PRIOR APPLICATION NUMBER: US/09/626,617
PRIOR FILING DATE: 2000-07-27
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR PILING DATE: 1999-07-16
PRIOR PRIOR DATE: 1999-07-16
PRIOR PILING DATE: 1999-07-16
PRIOR PILING DATE: 1999-07-16
PRIOR PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                           Query Match 93.6%;
Best Local Similarity 97.0%;
Matches 1078; Conservative C
                                                                                                                                                                    TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                      LENGTH: 1111
                                                                                                                                                                                                       US-11-177-987-9
                                                                                                                                                                                                                                                                                                                                                                             123 '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                               63
                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                              183
                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठ
                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 9, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible 1
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1080
                                                                               360
                                                                                                                                                                                                                               AATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCG 540
                                                                                                                                                                                                                                                                                 600
                                                                                                                                                                                                                                                                                             999
                                                                                                                                                                                                                                                                                                                                           TGGACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCAC 720
                                                                                                                                                                                                                                                                                                                                                                                                                              780
                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               960
                                                       300
                                                                                                      360
                                                                                                                               420
                                                                                                                                                      420
                                                                                                                                                                               480
                                                                                                                                                                                                        480
                                                                                                                                                                                                                                                                                                                                                                               TGGACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCAC 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TATTGATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATC
                                                                                                                                                                                              AAACTCAGCAATCAGCTCCAGCTCCTGTCACCGTGACGACGACGAACATCCAGAAG
                                                                                                                                                                                                                                                      ATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAATGCTTGCGTCTGAGCGAGAAGA
                                                                                                                                                                                                                                                                                                                               ATGAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                           GACTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCACTGATGATACAACAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGCITAIGIAACITCATTICCATAICCAATAITTATATATATGIAAGITTATTATTATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGCTTATGTAACTTCCATTTTCCATATTTTTTATATGTAAGTTTATTATTATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TATTGATATTTAGTATAAGGCAAATAATTTTATGACAATAACTATGGAAACAAGATATC
                                            GTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCC
                              AGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGGAGAACTGTTCCGAGGAGTC
                                                                               AGTGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTT
                                                                                                                                                                               AAACTCAGCAATCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTAGGCTTTAATAAACACATGGATATCATAAAAAAAA 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 2
US-11-177-987-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         961
                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
        181
                                 241
                                                        241
                                                                                301
                                                                                                         301
                                                                                                                                361
                                                                                                                                                        361
                                                                                                                                                                                 421
                                                                                                                                                                                                        421
                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                    į,
                                                                                                                                                                                                                                                                                                                                                                                          4 1
```

8 6 8 6

엄상

g

8 6

g

ò

8 6 ð ሪ ይ

셤

g ò 셤

ò

ò

```
Sequence 42, Application US/11177987

Sequence 42, Application US/11177987

Sublication No. US200527161941

GENERAL INFORMATION:

APPLICANT: Unmoutier, Laure

APPLICANT: Unmoutier, Laure

APPLICANT: Unmoutier, Laure

APPLICANT: Renauld, Jean-Christophe

TITLE OF INVENTION: Interleukin.21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin.21, The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5664

CURRENT APPLICATION NUMBER: US/11/17,987

CURRENT APPLICATION NUMBER: US/99/626,617

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-07-16

PRIOR PELING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

NUMBER OF SEQ ID NOS: 43

SEQ ID NO 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5280
                                                                                                 6894
                                                                                                                                                                                                                                                                                                                                                                       ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 1049
                                                                                                                                                                                                                                                                                                   1050 TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5281 rcreadadarecrrecercreaeceadadadadecradadadedadaderecreerrecr 5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                895 AGGAGGITACCICTCATICCITIAGAAAAAAGCITAIGIAACTICATITCCATATCCAA 6954
                                                                  869
                                                                                                                                                                                                           989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              689
                                                                                      8835 ATATITIATIGICACTGATGATACAACAGAAAAAAAATGATGTTIGAA
                           5775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5221 ATAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                      AGGAGGTTACCTCTCATTCCTTTAGAAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                           930 TATITIATATATGTAAGITITATITATAAGTATACATTITATTTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      510 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTÇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 5935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 49.6%; Score 555.2; DB 7; Best Local Similarity 96.0%; Pred. No. 7.7e-117; Matches 580; Conservative 0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                           1110 AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-11-177-987-42
                                                                                                                                       870
750
                                                                  810
                                                                                                                                                                                                                                                                                 990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                630
                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         සු
                         g
                                                                  ઠે
                                                                                         g
                                                                                                                                  ઠે
                                                                                                                                                                 셤
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                   쉱
                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                    WS-11-177-987-8

Sequence 8, Application US/11177987

Publication No. US20050271619A1

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Rehauld, Jean-Christophe

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: US 564

TITLE OF INVENTION: US 564

CURRENT APPLICATION NUMBER: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/419,568

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-07-16

PRIOR PLING DATE: 1999-07-16

PRIOR PILING DATE: 1999-07-16

PRIOR PILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                           6654
                                                                                                                                                                                                                                            961 ATACATITITATITATGECAGITITATTAATATGGATTITATTATAGAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                             TTGATATTT-AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCT 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6715 GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  749
                                                                                                   AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG 900
                                                                                                                                                                        CCTATGTAACTTCATTTCCATAACCAATACTTTATATGTAAGTTTATTTTATTATAAGT 960
                    CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                   ATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAG
                                                                                                                                         CTTATGTAACTTCATTTCCATATCCAATATTTTATATGTAAGTTTATTTTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    510 AAAGCTTGGAGAGAGAGGGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 7445;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 601.4; DB 7;
Pred. No. 2.6e-127;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                         TAGGCTTTAATAAACACATGGATATCATAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            53.7%;
99.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity 99.8
Matches 602; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 7445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-177-987-8
                                                                                                                                                                                                                                                                                                                                                       1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6595
                                                                                                    841
                                                                                                                                                                                                                                                                                 1023
                                                                                                                                                                                                                                                                                                                    1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            630
                                 781
                                                                   843
                                                                                                                                         903
                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  690
                                                                                                                                                                                                           963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 8
                      8 6 8 6 8 8
                                                                                                                                                                                                                                                                                                         유
                                                                                                                                                                                                                                                                                                                                                                               В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
8
                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
```

194

248

374

434

```
1000 ATTTATAGAAACATTATCTGCTATTGATA-TTTAGTATAAGGCAAATA---ATATTTATG 1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACTIGATAACCACAAAGATICATIGACAATATTITATIGICACIGAIG----AIACAACA 837
CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC 254
                                                                                                                                                                                                                                                                                                                                                                                          TGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGAGTCAGTATGAG 314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               309 AGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACGTTCTGCTCCC 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            369 CCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCCAAACTCAG 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAATCAGCTCAGCTCCTGTCACATCAGCGTGACGACCAGAACATCCAGAAGAATGTCAG 488
                                                                                                                                                                                                                                                                                                                                                     AGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAGTGCTAA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 caacaescraascacarstrorarreaassroarsaccrocararccasassarstrora 494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1035 AFTTATAGAAACATCATTCGATATTGCTACTTGAGTGTAAGGCTAATATTGATTTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACAATAACTATGG----AAACAAGATATCTTAGGCTTTAATAAACACATGGATATC 1107
                                                                                                                                                             AACCTGGCTCAGTTGAAAAAAAAATAGTGTCAA--GTTGTCCATGAGACCAG-AGGTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                838 GAAAAATAATGTACTTTAAAAAATTGTTT-----GAAAGGAGGTTACCTCCATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           915 rraggggaaaaaaccccraaaragcrrcargrrrccaraarcagaacrrrararaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         946 GITTATTTATATAAGTATA-----CATTTTATTTATGTCAGTTTAATATGGATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   315 TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAGCTGAAGGACACAGTGAAAAAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acriccarriricricritraricricricada a reconstructura de la reconstructura 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 615 AATGAATAACCICCCTTCCCTGCTAGAATAACAATTAGATGCCCCAAAGCGATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITA----CTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTA---GAAAAAAAGCTTATGTAACTTCA--TTTCCATATCCAATATTTTATATATATAA
                                                                                                                                                                                                                            CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACTGGACCTGCTGTTTATGTCTCTGAGAATGCTTGCGTCTGAGGGAGAAGAAGCTAGAA
                                                                                                  GTGGGCCCAGGAGGCAAATGCGCTGCCGTCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1056
                                                                                                     129
                                                                                                                                                                    135
                                                                                                                                                                                                                                  189
                                                                                                                                                                                                                                                                                             195
                                                                                                                                                                                                                                                                                                                                                            249
                                                                                                                                                                                                                                                                                                                                                                                                                          255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   891
                                          75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                       8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                  8
                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         General information:

| General information:
| APPLICANT: Goddard, Audrey |
| APPLICANT: Goddard, Audrey |
| APPLICANT: Goddard, Audrey |
| APPLICANT: Goddard, Paul J. |
| APPLICANT: Goddard, Chirattopher J. |
| APPLICANT: Goddard, Chirattopher J. |
| APPLICANT: Wood, William I. |
| TITLE OF INVENTION: ANTHRODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS |
| TITLE OF INVENTION: ANTHRODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS |
| TITLE OF INVENTION: ANTHRODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS |
| FILE REFERENCE: P320RICLOGC |
| CURRENT APPLICATION NUMBER: 10/06362 |
| PRIOR FILING DATE: 2002-05-07 |
| PRIOR FILING DATE: 2001-12-06 |
| PRIOR FILING DATE: 2000-08-24 |
| PRIOR FILING DATE: 2000-08-24 |
| PRIOR FILING DATE: 2000-08-24 |
| PRIOR FILING DATE: 199-12-09 |
| NUMBER OF SEQ ID NOS: 170 |
| SEQ ID NO 153 |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGGAGGTTACCTCTCATTCCTCTAGAAAAACCTATGTAACTTCATTTCCATTACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAT 1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11;
                                                                                                                                                                                                                                                                                             ATATITIATIGICACIGAIGAIACAACAGAAAAAIAAIGIACITIAAAAAAIIGITIGAA 869
                                                                                                                                                                                                                                                                                                                                                                                                                          AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA 929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTGCTTCTCATTGCCCT 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               74
                                                                                                                                                                                                                                                                                                                                     TATTTTATATATGTAAGTTTATTATTATAAGTATACATTTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u> crecrrecedanta de riceres a constanta de la constanta de la consecuencia de la constanta del constanta de la constanta de la constanta de la</u>
                                                                                                                                                                    TAGTGTCAAGTTGTCCATGAGACCAGGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 524.8; DB 7;
Pred. No. 3e-110;
0; Mismatches 267;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 153, Application US/11102240; Publication No. US20050260647A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 73.2%;
Matches 832; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Homo Sapien
US-11-102-240-153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAAA 5824
                                                                                                                                                                                                                                                                                                    810 7
                                                                                                                                                                                                                                                                                                                                                                                                                              870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              69
                                                                                                                                                                                                                                      5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5821
                                                                                                         5401
                                                                                                                                                                                                                                                                                                                                                               5521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1109
                                                                                                                                                                          750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                       8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                   8 6 8 6
                                                                                     유
```

890

854

914 945 974 666

724

734

548

554

608 614 668 674 781

794

```
Sequence 18, Application US/1117987

Publication No. US20050271619A1

GENERAL INFORMATION:

JAPLICANT: Bunoutier, Laure

APPLICANT: Remaild, Jean-Christophe

JILLS OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5664

CURRENT APPLICATION NUMBER: US/11/17,987

CURRENT FILING DATE: 2005-07-07

PRIOR PELICATION NUMBER: US/9/626,617

PRIOR PELICATION NUMBER: US/9/419,568

PRIOR PLICATION NUMBER: US/9/419,568

PRIOR PLICATION NUMBER: US/9/354,243

PRIOR PLICATION NUMBER: US/9/354,243

PRIOR PLILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR PLILING DATE: 1999-07-16

PRIOR APPLICATION NUMBER: US/9/178,973

PRIOR PLILING DATE: 1999-07-16

PRIOR APPLICATION NUMBER: US/9/178,973

PRIOR PLILING DATE: 1999-07-16

PRIOR PLILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

SEQ ID NO 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        413
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       300
629 AATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTT 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          654 CCCTGAATGGACTTTTTT----ACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATA 709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301 GCCCCAAAGCGATTTTTTTAACCAAAAGGAAGATGGGAAGCCAAACTCCATCATGATGG 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AGAAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         414 CCTGACCAAACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 ceregeceaegereaegeaaegeraageaegerererereraringaagereaegereegerar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        474 CCAGAAGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGTGGAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       534 CAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241 AGAGCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAATAACAATTAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        354 AGACGTTCTGCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 418;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         710 GAAGATITCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361 Gregarrecaaargaaccerecerracrracraaaggaaa 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 223.6; DB 7;
Pred. No. 6.9e-42;
0; Mismatches 99;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 26, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 74.2%;
Matches 297; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Homo sapiens
                                                670
                                                                                                 690
                                                                          689 TT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 8
US-11-177-987-26
                                                TT 699
                                                                                                                                                                                                  US-11-177-987-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-11-177-987-18
유
                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                                                                    APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 564
CURRENT APPLICATION NUMBER: US/09/626,617
FRIOR FILING DATE: 2005-07-07
FRIOR FILING DATE: 1909-10-18
FRIOR FILING DATE: 1999-10-18
FRIOR FILING DATE: 1999-10-18
FRIOR FILING DATE: 1999-10-16
FRIOR PELLING DATE: 1999-10-16
FRIOR FILING DATE: 1999-10-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGCTAA 308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGATAACAACACACAGACGTTCGTCTCTTTGGGGAGAAACTGTTCCACGGGGTCAGTATGAG 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       309 AGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCTGCTCCC 368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAATGTCAG 488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGCTAGAA 608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAA 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCTGTGAGGTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCTTCTTTTTTGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  389 TCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      crecrreceagracaccagriceregagriagaarrerereaareeceeeeeeraaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        129 GTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAACTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u> aaagcrgaaggacacacrgaaaaagcrrggagagagagrggagarcaaagcaarrggaga</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTGCTTCTCATTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGAGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 690;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   36.6%; Score 409.2; DB 7; Length 76.1%; Pred. No. 4.9e-84; ive 0; Mismatches 158; Indels
               Sequence 25, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 76.19
Matches 504; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JS-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGIH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
```

```
Sequence 13479, Application US/10995561
; Bellication No. US20050272054A1
; Publication No. US20050272054A1
; Publication No. US20050272054A1
; Publication No. GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENERAL DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFRENCE: CLO0159
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13479
972 ATTIATGICAGITTATTAATATGGATTTATTATAGAAACATTATCTGCTATTGATATT 1031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1032 AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAA 1091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITAAAAAATIGITIIGAAAGGAGGITACCICCICAITCCITITAGAAAAAAAGCITATGIAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTCATTTCCATATCCAATATTTATATATGTAAGTTTATTATTATAAGTATACATTTT
                                                                                                            972 ATTTATGTCAGTTTATTAATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT
                                                                                                                                                                                                                                                 1032 AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 105, Application US/11121086
Publication No. US2005026645941
GERREAL INFORMATION:
APPLICANT: POULERN, KIRSTEN V.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
FILE REFERENCE: 09138.000-00000
CURRENT PELLOGICATION: NUMBER: 2005-05-04
PRIOR APPLICATION NUMBER: 60/567,570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 54946;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 54.6; DB 6;
Pred. No. 0.02;
1; Mismatches 125;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  21734 TTTATATTTATATTTTATATATA 21708
                                                                                                                                                                                                                                                                                                                                                                                      1092 TAAACACATGGATATCATAAAAAAAA 1118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1092 TAAACACATGGATATCATAAAAAAAA 1118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rrrararrarararrarararara 3162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.9%;
milarity 52.4%;
Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    , ORGANISM: Homo sapiens
US-10-995-561-13479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 140; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 11
US-11-121-086-105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ₽
                                                                                                            ò
                                                                                                                                                                               원
                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                               APPLICANT: Remaild, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
CURRENT APPLICATION NUMBER: US/11/17,987
CURRENT FILING DATE: 2000-07-27
PRIOR APPLICATION NUMBER: US09/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US09/354,243
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
FERROR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                    Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21973 TCTCAAATACATATATATATATATATATAAAATATCTATAAAATATATATAT 21914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: CARGILL.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CAEDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REPERENCE: GLOO1559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 13333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89 ArchgigAgchcritrcciraigggacccrggccaccaccaccrccrccrrcrrggcccr 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTCCAA 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            149 cirrégraciacion de la confecçación de la con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29 criccrrcccharcachacharracharantaranantarananananan 88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       852 ITTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAAGCTTATGTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9 CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGG 238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ó;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4.9%; Score 54.6; DB 6; Length 26772;
52.4%; Pred. No. 0.014;
ive 1; Mismatches 125; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 4797;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11.3%; Score 126; DB 7; 71.7%; Pred. No. 3.6e-19; iive 0; Mismatches 65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 13313, Application US/10995561 Publication No. US20050272054A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 52.4
Matches 140, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-995-561-13313/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OKGANISM: HOMO B
US-10-995-561-13313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 26772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        165;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-11-177-987-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

```
RESULT 13
US-10-995-561-13443/c
                                      ò
                                                                          셤
                                                                                                              ò
                                                                                                                                                    g
                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16657 TATÄTTACATÄTTAAT-ÄTAATÄAATÄTATTÄÄTTÄTÄATAATAATATATÄTÄTÄTÄATÄ 16715
                                                                                                                                                                                                                                                                                        980 CAGTTTATTAATAGGATT-TATTTATAGAAACATTATCTGCTATTGATATTTAGTATAA 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1039 GGCAAATAATATTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACAC 1098
                                                                                                                                                                                                                                                                                                                                                                                                           921 CATATCCAATATTTATATATGTAAGTTTATTATTATA-AGTATACATTTTATTATGT 979
                                                                                                                                                                                                                                                                                                                                861 TIGITIGAAAGGAGGTIACCTCTCATICCTTTAGAAAAAAGCTTAIGIAACTICATTTC 920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           843 ATAATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCTTTTAGAAAAAAG 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        903 CTTATGTAACTTCCATTTCCATATCCAATATTTTATATGTAAGTTTTATTATTATAAGT 962
                                                                                                                                                                                                                                                    801 TCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAA
                                                                                                                                                                                                                4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4.8%; Score 53.8; DB 6; Length 190276; 51.0%; Pred. No. 0.055;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1, Application US/10661966
; Publication No. US20050277118A1
; GRERRAL INFORMATION:
APPLICANT: Noth, Richard B.
APPLICANT: Noth, Richard B.
APPLICANT: Noth, Matthew Roberts
APPLICANT: Nelson, Matthew Roberts
TITLE OF INVENTION: OF MELANOMA AND TREATMENTS THEREOF
CURRENT FILING DATE: 2003-09-11
; PRIOR PELLORATION NUMBER: 60/410,595
RIOR FILING DATE: 2002-09-11
; PRIOR PELLING DATE: 2002-09-11
; PRIOR PELLING DATE: 2002-09-11
; PRIOR PELLING DATE: 2002-10-29
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FASTSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                      Query Match
4.8%; Score 54; DB 7; Length 171486;
Best Local Similarity 56.3%; Pred. No. 0.047;
Matches 179; Conservative 0; Mismatches 135; Indels 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches 122; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16716 TATTATATAATAATATA 16733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1099 ATGGATATCATAAAAAA 1116
PRIOR FILING DATE: 2004-05-04
NUMBER OF SEQ ID NOS: 107
SOFTWARE: PatentIn version 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity 51.03
Matches 127; Conservative
                                                                                            TYPE: DNA
CORGANISM: Homo sapiens
US-11-121-086-105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Homo sapiens
                                                          SEQ ID NO 105
LENGTH: 171486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LENGTH: 190276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-661-966-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
```

```
; NAME/KEY: misc_feature
; LOCATION: (1)...(49979)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-'
US-10-995-561-13443
                                                                                                                                                                                                                            109994 ATATATATATATATATATATATATATATAATTATGTTATATATATATATATATATATATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28986 TATATATAAATAATATAATATAATATATATAAMCAATATAAATATAATAACTATAAATA 28927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 13443, Application US/10995561
| Publication No. US20050272054A1
| Publication No. US20050272054A1
| Publication No. US20050272054A1
| APPLICANT: CARGILL, Michele et al. APPLICANT: CARGILL, Michele et al. TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH TITLE OF INVENTION: DETECTION AND USES THEREOF TITLE OF INVENTION: DETECTION AND USES THEREOF FILE REFERENCE: CL001559
| CURRENT APPLICATION UNDMERE: US/10/995,561
| CURRENT FILING DATE: 2004-11-24
| NUMBER OF SEQ ID NOS: 85702
| SOFTWARE: FastSEQ for Windows Version 4.0
| SEQ ID NO 13443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  982 GITTAITAATAIGGAITITAITATAGAAACAITAICIGCIAITGAIAITIAGIAIAAGGC 1041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1042 AAATAATATTTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAAAACACA 1099
                                                                                                                                                                                        1023 TIGATATITAGTATAAGGCAAATAATATITTATGACAATAACTATGGAAACAAGATATCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        742 AAAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  802 CATTGACAATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            862 IGITIGAAAGGAGGITACCICTCATICCTTTAGAAAAAAAGCTTATGTAACTICATITCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            922 ATAICCAAIATITIAIAIAIGIAAGITITATITAITAIAAGIAIACAITITIAITIAIGICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
4.8%; Score 53.6; DB 6; Length 49979;
Best Local Similarity 48.0%; Pred. No. 0.033;
Matches 172; Conservative 3; Mismatches 182; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-10-995-561-13354
Sequence 13354, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                            110114 ACTĊTGTCA 110122
                                                                                                                                                                                                                                                                                                                 1083 AGGCTTTAA 1091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Homo sapiens
```

```
; NAME/KEY: misc_feature
; LOCATION: (1)...(47444)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27635 TATGTATACATATACATATATATATATATATATATATGTATACATAATATACATATAA 27694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27695 тататаататтатбтатасатаататасататадатататататататтаттататасата 27754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITATGICAGITITATIAATATGGATTIATAGAAACATTATCIGCTATTGATATTA 1032
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1033 GTATAAGGCAAATAATATTATGACAATAACTATGGAAAGAAGATATCTTAGGCTTTAAT 1092
    TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DETECTION AND USES THEREOF
TILLE REPERENCE: CLOO1559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SEQ ID NOS: 85702
SEQ ID NO 13354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             793 ACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAATAATGTACT 852
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        913 TTCATTTCCATATCCAATATTTTATATATGTAAGTTTTATTATTATAAGTATACATTTTA 972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          853 TTAAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAAC 912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-11-121-086-25/c

Sequence 25, Application US/11121086

Bublication No. US20850266459A1

GENERAL INFORMATION:
APPLICANT: POULSEN, TIM S.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
TITLE OF INVENTION: NUCLEIC ACID PROBES
FILE REFERENCE: 09138-6000-00000
CURRENT FILING DATE: 2005-05-04
CURRENT FILING DATE: 2006-05-04
NUMBER OF SEQ ID NOS: 107
SEQ ID NO 25
LENGTH: 173602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 4.7%; Score 52.8; DB 7; Length 173602; Best Local Similarity 51.7%; Pred. No. 0.089; Matches 153; Conservative 0; Mismatches 132; Indels 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 53.4; DB 6; Length 47444;
Pred. No. 0.036;
0; Mismatches 161; Indels 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     27812 TATTATGTATACATATATACATATAA 27838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1093 AAACACATGGATATCATAAAAAAAA 1119
Michele et al
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 49.8%;
Matches 163; Conservative
                                                                                                                                                                                                                                                               TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                    LENGTH: 47444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     973
                                                                                                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

ï

Gaps

```
136386 ATATATTATATATATATATATATATTGTATATATTATATATAAATATATATATATAT 136327
                                                                                              979 ICAGITITATITATATATGGAITITATAGAAACAITATCIGCTATIGATATITAGTATAA 1038
                                                                                                                                       919 TCCATATCCAATATTTATATATGTAAGTTTATTATAAAGTATACATTTTATG 978
799 ATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAATAATGTACTTTAAAA 858
                                                                                                                                                                                                                                                                                                           1039 GGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAA 1094
                                                                  859 AATIGITIGAAAGGAGGITACCICICATICCITTAGAAAAAAAGCITAIGTAACTICATI
                              원
                                                                                                g
                                                                                                                                       ઠ
                                                                                                                                                                    d
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                        셤
                                                                   ò
                                                                                                                                                                                                                                                                           δ
```

Search completed: December 21, 2005, 18:11:02 Job time : 82.0229 secs

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 8, Appli
Sequence 8, Appli
Sequence 17, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 25, Appl
Sequence 25, Appl
                                                                                    December 20, 2005, 13:17:12 ; Search time 842.71 Seconds. (without alignments) 15704.028 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 5443, Ap
Sequence 24, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                               US-09-751-797-8
7445
1 gtctatcacctgcttaagat......gattaattaattatgtgtat 7445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 40,
Sequence 14,
Sequence 14,
Sequence 1,
Sequence 1,
Sequence 1900
Sequence 5443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence Sequence S
                                                                                                                                                                                                                                                                                     2606114
                                                                                                                                                                                                                                                                                                                                                                                                                                 / Cgn2 6/ptodata/1/ina/1 COMB.seq:*
/ cgn2 6/ptodata/1/ina/5 COMB.seq:*
/ cgn2 6/ptodata/1/ina/6 COMB.seq:*
/ cgn2 6/ptodata/1/ina/6 COMB.seq:*
/ cgn2 6/ptodata/1/ina/H COMB.seq:*
/ cgn2 6/ptodata/1/ina/PCTUS COMB.seq:*
/ cgn2 6/ptodata/1/ina/PCTUS COMB.seq:*
/ cgn2 6/ptodata/1/ina/PCOMB.seq:*
/ cgn2 6/ptodata/1/ina/PP COMB.seq:*
/ cgn2 6/ptodata/1/ina/RE COMB.seq:*
/ cgn2 6/ptodata/1/ina/RE COMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-178-973B-8
US-09-419-56BF-8
US-09-178-973B-17
US-09-178-973B-17
US-09-18-25-25
US-09-949-016-17185
US-09-949-016-17185
US-09-18-25-25
US-09-19-56BF-25
US-09-178-973B-7
US-09-178-973B-7
US-09-178-973B-9
US-09-178-973B-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-949-016-190092
                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                       1303057 segs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUMMARIES
                                                                                                                                                                                                                                                                                                                                                           Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                           OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                          IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                         Issued Patents NA:*
                                                                                                                                                                                                                                                                                                                 seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query
Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7445
7445
7445
7445
4245.2
4245.2
1081
686
                                                                                                                                                Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601.4
601.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          598.2
555.2
555.2
7 499
217.6
215.6
215.6
181.4
126
                                                                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                 Minimum DB
Maximum DB
                                                                                                                                                                               Sequence:
                                                                                                                                                                                                                                                       Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                          Database
                                                                                        Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  è.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                υ
```

Sequence 24, Appl -9 Sequence 9, Appli -17 Sequence 17, Appl -14 Sequence 14, Appl -18 Sequence 1519, A -208 Sequence 1519, Appl -208 Sequence 208, Appl -208 Sequence 208, Appl -208 Sequence 12776, A -115940 Sequence 1159, A -115940 Sequence 1159, A -115940 Sequence 11539, A -12776 Sequence 11539, A -12776 Sequence 11539, A -12776 Sequence 11539, A -12840 Sequence 11539, A -12940 Sequence 11539, A -12940 Sequence 11539, A -16930 Sequence 16939, A -16930 Sequence 16930, A -16930 Sequence 16931, A	olecules which Encode T Cell Inducible and Uses Thereof	imilarity 100.0%; Score 7445; DB 3; Length 7445; conservative 0; Mismatches 0; Indels 0; Gaps 0; grcrarcaccrccrcraagarrcrcraarrraraaaaaacrarrrcrraaargaaaa 60 grcrarcaccrccraagarrcrrcraarrraraaaaaaacrarrrcrraaaargaaaa 60 grcrarcaccacaccararraraagargarrcraacarcacacaca
US-09-354-243B-24 US-10-084-298-9 US-08-222-453-14 US-08-232-463-14 US-08-232-463-14 US-09-949-016-15129 US-09-949-016-12940 US-09-949-016-12940 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-12776 US-09-949-016-12776 US-09-949-016-12776 US-09-949-016-12776 US-09-949-016-12804 US-09-949-016-12804 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13504 US-09-949-016-13508	ALIGNMENTS con US/09178973B for use Jamia Jamia Jamia The Proteins Encoded, and Uses (TIFs) NUMBER: US/09/178,973B 1998-10-26 3: 17	100.0%; Score 7445; DB 3; 100.0%; Pred. No. 0; vative 0; Mismatches 0; CTGCTTAAGATTCTTCTAATTTATAAAAAA GCACGTATTATAACTTCTTATTTATAAAAAA GCACGTATTATAACATCTTCTTTTTTATAAAAAAA GCACGTATTATAGCATGGTTTTTTTTTT
690 1 191 191 191 191 191 191 191 1	:	100.0% Larity 100.0%; Conservative TATCACCTGCTTAAG;
126 126 135.88 135.88 11.1 135.88 11.1 10.1 10.1 10.1 10.1 10.1 10.1 1	SULT 1 Sequence 8, Application of Early 178-973B-8 Sequence 8, Application of Early 100 GENERAL INFORMATION: APPLICANT: Dumoutier, APPLICANT: Louhed, JAPLICANT: Renauld, TITLE OF INVENTION: CURRENT APPLICATION NUMBER OF SEQ ID NOS: SEQ ID NOS BLORGH: 7445 TYPE: DNA ORGANISM: MUS MUSCUL	ω _ν .
. OD ODODO D OSOCIAL MENTINA 44444 NO 10 00 10 10 10 10 10 10 10 10 10 10 10	RESULT 1 US-09-178-973B ; Sequence 8, ; Patent No. 6 ; GENERAL INFO ; APPLICANT: ; APPLICANT: ; APPLICANT: ; TITLE OF IN: ; TI	Query Match Best Local Qy 1 Db 61 Db 61 Qy 121 Qy 121 Qy 121 Db 181

TCGACTCCCCAACCTCTCACCTTCGGCTCCTGATGGCCACCTTTCAACTTTCTGCATTTA 360

241 CTGCTGTCCAACAGAGCTCTTGAGCACGCTCTCTGTTTGCAATTTTATGTTCTTTGA 300

CTGCTGTCCAACAGAGCTCTTGAGCACGCTCTCTCTGTTTGCAATTTTATGTTCTTTGA

241

301

300

Fac

14.1
8 4 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
10 TCGACTCCCCAACCTCTCACCTCCGCCCCCAATGCCCACTTCAACTTCTCCAATTCTCAACTTCTCCAATT

6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8
Contract C

	6661 TAAAAAGAACAATAAGATTCCCTGAATGGATTTTTTTACTAAAAGGAAGG
6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	8 8 8 8 8 8
	5581 TACTGGGTTCATAACAAAGAAGTCTGGAAAGGAAGTGAAAGGAAATGG 5640 5581 TACTGGTTGGGCTTCATAACAAAGGAAGTCTGGAAAGGAAGG

61 GCAACCAGAGCACGTATTTATAGCATGGTGTTCTGACCATGCAGGTACAGAGTGGAATGG 120 61 GCAACCAGAGCACGTATTATAGCATGGTGTTCTGACCATGCAGGTACAGTGGAATGG 120 61 GCAACCAGAGCACGTATTATAGCATGTGTTTCTTCTACCAGGTGGAATGG 120 121 TAAGAGGCGCTATTATCAGCATTAACCAACATGTTTTTCTTCTTCTAGCAGAGTGCAACT 180 121 TAAGAGGCGCTATTATCAGCATTAACCAACATGTTTTTCTTCTTGCAACACACAC	661 TTCACTCACTGCCACCTCCCTTTGCATCTTTCTGCCAAGGAACACCAAAAAGCAAAAAAAA
6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8 4 8 4 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8
0901 TTACCTCTCTTTCTTTTATATATATATATTTTTTTTTT	RESULT 2 US-09-419-568F-8 US-09-419-568F-8 US-09-419-568F-8 US-09-419-568F-8 Sequence 8, Application US/09419568F Sequence 8, Application US/09419568F Sequence 8, Application US/09419568F Parent No. 633163 GENERAL INFORMATION: APPLICANT: Dumoutier, Leure TITLE OF INVERTION: Isolated Nucleic Acid Molecules which Encoded Terring Date: 1999-10-18 PRIOR FILING DATE: 1999-07-16 PRIOR FILING DATE: 1999-07-16 PRIOR FILING DATE: 1999-07-16 PRIOR FILING DATE: 1999-07-16 PRIOR FILING DATE: 1999-10-26 SEQ ID NO 8 DESCO ID NOS: 29 CHOST: DATE:

Page 6

	TCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTTGTTTAAGGACTGGGT	2401 CTTTTCTATTTCTATTTCARGATCTCAGGACCATTTCTATTTTGTTTTG	2461 TATACTGAATTTTATCTACAGAGGGGGTTTTAGAAAGCCAGCGCACGGATGCTTTC 2520 2521 CATTCTCTGTGCTCTCTTCTGAACTCATACTCTTTGGCTACTCGAGACCCACTGCG 2580	2581 GACATACATCTACTTACAGGCTTTTCTTCCATCTCTTGTCACCCAGGCACTTAGGGT 2640 2581 GACATACATCTCTACTTACAGGCTTTTCTTCCATCTTGTCACCCAGGCACTTAGGGT 2640 2641 TTCTCTCTTTCAGGCCAGCCTTGCAGATAACAACAGAGACGTCCGGGGCTCATCGGGGAGA 2700	2641 TTTCTCTTTCAGGCCAGCCTTGCAGATAACAACACAGAGCGTCCTGTCTTTCTGGGGAGA 2700 2701 AACTGTTCCGAGGAGTCAGTGTAAGTCCTCACTGTGATGAGGGGGGGG	ט נין — נין				CCTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCCTCTCTCT	GGGCCTCAGCACCACCACCATCATAGGCCACTTGAAATAGGTCACAAAGGCTTTGGCTTTC	ANTIGACIAATACTITICACIONICALIONICANO CANONICANO CANONICA	AATCAACTCAAATTCTGTAGGATGAGAAAGATGTTGGGAACGAAAAAAAGGCCTAGATAGA	3241 GAAACAATCTGCTGAGTATAGTACTTATTGGGGGGGGGG
96 & 96 10 & 96	ò a	& & &	a & a	8 6	do oy	8 & 8	රු දු	& a .	3 8 8	ž 8 ž	S 8 5	S 8 5	S 8	& & &
	_ ,_							<u> </u>						
TIGCACAAGTAAAATGTCAGAGAATTAGCAAATGTATTAGTATTATTTTATATAAAAAAA [1321 TCTGTGGCAATGGGGGCTGTGAAGAAGCCAACATTCTTATTAAAAAAAA		1441 AATAATCTCCAAGITICATIAGGCTIATIICAAGGCACAGAATATGAGACACGGGTCC 1500 1501 TTTATTTCTGGTCACTTCTAAAGAGATAAGAATCTATGAAGTTGGTGGGGAAAATGAGTCC 1560 1501 TTTATTTCTGGTCACTTCTAAAGAGATAAGAATCTATGAAGTTGGTGGGGAAAATGAGTCC 1560	1561 GTGACCAAAACGCTGACTCAATAGCTACGGGAGATCAAAGGCTGCTTACTCAATCAGAA 1620	TCTACTACGGCAAAGCCATGGCTTTCTTTGAAAACCGTGTTTAGAAGATTTCTGGGATTT GTGTACAAAAGCACCTTGTTGGCCCTCACCGTGACGTTTTAGAAGATTTCTGGGATTT GTGTAAAAGCACCTTGTTGGCCCTCACCGTGACGTTTTAGGGAAAGACTTCCCATCTCT	1681 GTGTGCAAAAGCTCGTTGTTGGCCCTCACCGTGACGTTTTAGGGAAGACTTCCCATCTCT	agaagacaggactggaaattagataatgtctgatgtcatatcattcacaataccaaaaaa 	1861 ACCCTGGTGTCCCGATGGCTATAAAGCAGCAACTTCTGCCTCTCCCATCACAAGCAGAG 1920 	1921 ACACCTAAACAGGTAAGCACTCAACAGACAATCATCTGCTTGGTACCATGCTA 1980	1981 CCCGACGAACATGCTCCCCTGATGTTTTTGCCTTTTGCTCTCTCACTAACAGGCTCTCCT 2040 1981 CCCGACGAACATGCTCCCCTGATGTTTTTGCCTTTTGCTCTCACTAACAGGCTCTCCT 2040	2041 CTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAAATCTATG 2100 2041 CTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAAATCTATG 2100	2101 AGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCCTGC	2161 CAGGAGGAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTCCAACTTCCAG 2220 [

6 6 6 6 6 6 6 6

4411 AGCTCATTAAACGGATCCTTGAAATGTGCCAAAATCAACCGAAATAACAAAAGGG
6 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4
311 CAMENTACHOCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC

ઠ 셤 8 6

8 6 8 6

ሪ 8 ሪ

셤 8 ብ ጵ

셤

8 6 8 6 8

```
1200
                                                                                                                                                                                                                                                           1260
                                                                                                                                                                                                                                                                                                       1320
                                                                                                                                                                                                                                                                                                                                                    1380
                                                                                                                                                                                                                                                                                                                                                                                               1440
                                                                                                                                                                                                                                                                                                                                                                                                                      1440
                                                                                                                                                                                                                                                                                                                                                                                                                                             1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1800
                                                                     1020
                                                                                                                                        1080
                                                                                                                                                                                                                                  1200
                                                                                                                                                                                                                                                                                                                            1320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1860
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1980
 900
                                               960
                          960
                                                                                1921 ACACCTAAACAGGTAAGCACTCAGACCTCTACAGACAATCATCTGCTTGGTACCATGCTA
  CTCCAGTGTCCCTCTAACACTTTTGATCTCAATTAGCTGAGGGGAGAAAGATCTCACACA
                                                                     AGGCGTCTGCTCCCGCTGCTTAGGAAAGACTTTCCTAGTCTAGTTGTCAGGTGCTATCTG
                                                                                                                                                               ATCCATCTATATAGTATGTTATTGTAGGCTCATTTAAAAATAATATTTTGAGACTTATGC
                                                                                                                                                                                                           TTGCACAAGTAAAATGTCAGAATTAGCAAATGTATAGTATTATTTTTAAAAAA
                                                                                                                                                                                                                         TIGCACAAGTAAAATGTCAGAGAATTAGCAAATGTATAGTATTATTTTATTTTAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTTATTTCTGGTCACTTCTAAAGAGATAAGAATCTATGAAGTTGGTGGGGAAAATGAGTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGACCAAAACGCTGACTCAATAGCTACGGGAGATCAAAGGCTGCTCTACTCAATCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGACCAAAACGCTGACTCAATAGCTACGGGAGATCAAAGGCTGCTCTACTCAATCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGTGCAAAAAGCACCTTGTTGGTGCCCTCACCGTGACGTTTTTAGGGAAGACTTCCCATCTCT
                                    GTGATTTTCATGACTTCGCGTTCTAGTCTAGATGTAGGCATTTGCGTGTCAGGCT
                                                                                                                  GGATTCAGTGTACAATGCAAAAAATCCCAGTATTTTGTAAATTCTTCTTCAACT
                                                                                                                                 GGATTCAGTGTACATACAATGCAAAAAATCCCAGTATTTTGTAAATTTCTCTTCTACT
                                                                                                                                                                          TIGGCIAIGAITICAACCITIGIAITIGCAICIACCAIAACAGICICIGAACAGA
                                                                                                                                                                                                                                                                                                                              TTGGCTATGATTTCAACCTTTGTATTTGCATCTACCATAACAGTCTCTGAACCAGAACAT
                                                                                                                                                                                                                                                                                                                                                    TITATITICIGGICACTICIAAAGAGAIAAGAATCIAIGAAGITGGIGGGAAAATGAGICC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GIGIGCAAAAGCACCTIGITGGCCCTCACCGTGACGTTTAGGGAAGACTTCCCATCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAAGGTGGGAAGGCTTGGAGGTGTCTTGTGGCCTCCTATGGTGGTTAGGTACTTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAAGGTGGGAAGGCTTGGAGGTGGTCTTGTGGCCCTCCTATGGTGGTTAGGTACTTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAAGACAGGACTGGAAATTAGATAATGTCTGATGTCATATCATTCACAATACCAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCCTGGTGTCCCGATGGCTATAAAAGCAGCACTTCTGCCTCTCCCATCACAAGCAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACACCTAAACAGGTAAGCACTCAGACCTCTACAGACAATCATCTGCTTGGTACCATGCTA
                                                                                                                                                                                                                                                                                1201
                                               901
                                                                                                                   1021
                                                                                                                                        1021
                                                                                                                                                               1081
                                                                                                                                                                                      1081
                                                                                                                                                                                                             1141
                                                                                                                                                                                                                                    1141
                                                                                                                                                                                                                                                           1201
                                                                                                                                                                                                                                                                                                       1261
                                                                                                                                                                                                                                                                                                                             1261
                                                                                                                                                                                                                                                                                                                                                                          1321
                                                                                                                                                                                                                                                                                                                                                                                                1381
                                                                                                                                                                                                                                                                                                                                                                                                                       1381
                                                                                                                                                                                                                                                                                                                                                                                                                                              1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1921
   841
                                                                     196
                                                                                            196
                                                                                                                                                                                                                                                                                                                                                    1321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1681
                          901
                                         요 상
                                                                                     a
                                                                                                                 Ś
                                                                                                                                 셤
                                                                                                                                                        ઠે
                                                                                                                                                                                a
                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                            성 · 암
                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                       8 6
                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                         120
                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                  360
                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                    300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                 9
                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGAAATCTATGTCTTAAACAATCTTCAAGCCTCTAATATAGGGGTAACGACTGGAGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                           TCGACTCCCCAACCTCTCACCTTCGGCTCCTGATGGCCACCTTTCAACTTTCTGCATTTA
                                                                                                                                                                                                                                                                                                                                                                                                                          TCGACTCCCCAACCTCTCACCTTCGGCTCCTGATGGCCACCTTTCAACTTTCTGCATTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTCTCTCCAGCCCCAACATGAGTGCTTTTAGATTCCACCTAGAATAGAGATCTGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCAGTGTCCCTCTAACACTTTTGATCTCAATTAGCTGAGGGGAGAAAGATCTCACACA
                                                                                                                                                                                           GCAACCAGAGCACGTATTTATAGCATGGTGTTCTGACCATGCAGGTACAGAGTGGAATGG
                                                                                                                                                                                                                                              GCAACCAGAGCACGTATTTATAGCATGGTGTTCTGACCATGCAGGGTACAGAGTGGAATGG
                                                                                                                                                                                                                                                                                CTGCTGTCCAACAGAGCTCTTGAGCACGCTCTCCTCTTTTGCAATTTTATGTTCTTTGA
                                                                                                                                                                                                                                                                                                                                                                           CTGCTGTCCAACAGAGCTCTTGAGCACGCTCTCCTGTTTGCAATTTTATGTTCTTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGAACTCCATGTTTTAATCTTTTTAATAATATTCACACAATCAGTGTTTGTGCAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGGAGTTAGACCCAGGTCCTCCAGAAGTGCAAGCAATGCTCTTAACCACACGCGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTCACTCACTGCCACCTCCCTTTGCATCTTTCTGCCAAGGAACACAAAAAGCAAGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCCCACACACTGCTTTCGCTCCTCAAGTCTGCACCTCTCAACAGGGTCAAGATTCTCCCAGTGT
                                                                                                                                                                                                                                                                     TGAAATCTATGTCTTAAACAATCTTCAAGCCTCTAATATAGTGCTAACGACTGGAGTCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGAACTCCATGTTTTAATCTTTTAATAAATATTCACAAATCAGTGTTTTGTGCAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCAGGAGAGGCTGCCCTGGCACCGGAGTCACGGATGGTTGTGAGGCCACCATGAGGATGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCAGGAGAGGGTGCCTGGCACCGGAGTCACGGATGTTGTGAGCCACCATGAGGATGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGAGTTAGACCCAGGTCCTCCAGAAGTGCAGAAATGCTCTTAACCACACGCAGGCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCTCTCTCCCAGCCCCAACATGAGTGCTTTTAGATTCCACCTAGAATAGAGATCTGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTCACTCACTGCCACCTCCCCTTTGCATCTTTCTGCCAAGGAACACCAAAAAGCAAGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCCCACACACTGCTTTCGCTCCTCAAGTCTGCACCTCTCAACAGGTCAAGATTCTCCAGTGT
                                                                                                                                                     Gaps
                                                                                                                                                    ö
                                                                                                                             Length 7445;
                                                                                                                                                                           Indels
                                                                                                                                                    ö
                                                                                                                              3,
                                                                                                                              B
                                                                                                                             Score 7445; I
Pred. No. 0;
; Mismatches
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 8
LENGTH: 7445
                                                                                                                                                   0;
                                                                                                                             100.0%;
100.0%;
                                                                                                                           Query Match
Best Local Similarity 100.
Matches 7445; Conservative
                                                                    TYPE: DNA ORGANISM: Mus musculus
                                                                                                      US-09-354-243B-8
                                                                                                                                                                                                                                             19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                           121
                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                241
                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                           301
                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   841
                                                                                           FEATURE:
```

8 6 8 6

8 8 ઠે Page 10

	3121 3181 3181	3241 GAAACAGATCTGGGTATAGTACTTATGGGGGAGCAGGGGGGGTATCCACTGAGTA 	3301 CAAGTACTTGTGGGGAGAGAAATCCACTGAGTACAAGTACTTGTTGGCATGGAGATCCAC 336 1301 CAAGTACTTGTGGGGAGAGAAATCCACTGAGTACAAGTACTTGTTGGCATGGAGATCCAC 336	3361	3421 ATGGAGACCTCATGGTTGGGGGTGTGAAAGGTCCTTTTCCATGTGATGGAGGTGTGAAAGGTCACCTTTTCCATGTGATGGAGGTGTGAAAGGTCACCTTTTTCCATGTGATGGAGGTGTGAAAGGTCACCTTTTTCCATGTGATGGAGGTGTGATGAAAGGTCACCTTTTTCCATGTGATGGAGGTGTGAAAGGTCACTTTTTCCATGTGATGAAAGGTCACTTTTTCATGTAAAGGTCAAAGGTCAAAAGGTCAAAAAGGTCAAAAAAAA	3481 TAAGAAAAACCAGGGGGGGGGGGGGGGGGGGGGGGGGGG	3541 ACGAGGGGGCGGATGTGGGAGCTGGCAITTAGGGAAGGGGGGGTTTTCACACG 3	3601 AGAAACTTTATGCTCATCTGTGCTACACTCCCACCTTTGATGAGGTTCAGGTCAGGT 366 16	3661 TTCGTTTCTACCGTTCTTGCTGCTGGAAACTTCGGTAGGATTCCCCAAAGACGAGGA 	3721 CAGCTCTTCTGTAAGGAGGACCTGGATTTCAGTGTCCTAGAGAACGAAATAGCTCAGA 378 	3781 GAATCTAGGTCAACGTGAAATCTAGGTCACAGCGGGCAAAATGACTGAACGCCTCTATT 3 1781 GAATCTAGGTCAACGTGAAATCTAGGTCACAGCGGGCAAAAATGACTGAACGCCTCTATT 3 3781 GAATCTAGGTCAACGTGAAATCTAGGTCACAGCGGGGAAAATGACTGAACGTCTATT 3	3841 CCAGGTGAACGGTCACGTGCCTCAGATATACTGAGGTATTGGGCTCCCACCGGATAAGAT 390	y 3901 TCTGTTAGTGACTCTGCTTTTTTGCAGCACATCAGCGGTGACGACCAGAACATCCAG 3960 1901 TCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGCGGTGACGACGACACAGA 3901 TCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGCGGTGACGACGACACACCAGAACATCCAG 3960	OY 3961 AAGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAGGTACTATTGGCAAGCCACAATACT 4020	QY 4021 AAGCCATTCAGTAGGAGACGTGGGGATTTCTTTCTCTGCTTCCCAGTCCCTTCTACTTTG 4080 DD 4021 AAGCCATTCAGTAGGAGACGTGGGGATTTCTTTCTCTGCTTCCCAGTCCTTCTACTTTG 4080	4081 TAACATTTTATTTGACTTGTCTACTATCTGGTCCATTACTCGCTTAGCTGCACCTGTATC	Db 4081 TAACATTTTATTTGACTTGTCTACTGGTCCATTACTCGCTTAGCTGCACCTGTATC 4140
1 CCCGACGAACATGCTCCCCTGATGTTTTTGCCTTTTTGCTCTCTCT	2041 CTCACTATACTACTACTACTACTACTACTACTACTACTAC		21 CAGCGGTACATCGTACCGCCTTTATGCTGGCCAGGAGGTACAGCTGCATCTCTT 2280	CTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAGGGGCGCTTTA 2340	2341 TCTCCGCAGGTCTCACTACTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGGT 2400 2341 TCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGGT 2400 2341 TCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGGT 2400	ACACA 2460 ACACA 2460	TATACTGAATTTTATCTACAGAGGCGCATTTAGAAAGCCACCACGACTGCAATACTTTC 2520	21 CATTICICIONGCICTCTTCTGAACTCATACTCTCTGGCTACTCCTGAGACCCACTGCG	GACATACATCTCTACTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGGCACTTAGGGT	41 TITCICITITAGGCCTIGCAGITAACAACACAGACGCCGCCCAGGAGA 2 ITTCICCICITAGAGCCTAGGGGAGA 2 ITTCICCICTITAGAGCCTIGCGGAGA 2 ITTCICCICTICAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	701 AACTGTTCCGAGGGGTCAGTGAAGTCCTCACTGTGATGAGCGCGCCCTGTGCGGGGAGC 701 AACTGTTCCGAGGAGTCAGTGAAGTCCTCACTGTGATGAGCAGGCGTAGCTGCGGGAGC 701 AACTGTTCCGAGGAGTCAGTGAAGTCCTTCACTGTGATGAGCAGGCTAGCTGCGGGAGC 702 AACTGTTCCGAGGAGTCAGTGAAAAGTCCTAAAAAAAAAA	TIGGTGGACCCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGCAGGTAGTTACTCTACCTGCAGGTAGTCTACCTGCAGGTAGTCTACCTGCAGGTAGTCTACCTGCAGGTAGTCTACCTGCAGGTAGTCTACCTGCAGGTAGTCTACCTGCAGGTAGTCTACCTGCAGGAGGTAGTCTACCTGCAGGAGGAGGTAGTCTACCTGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGAGAGA	CTANAGATCGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGG	TCCCCCAGTCAGACCAGCCCTACATGAGGCTGCTCAACTTCACCCTGGAAAAACGTTCTGC 2000 TCCCCCAGTCAGAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAAC 2940	TCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAAC 2940 TCAGCAATCAGGTCCAGGTAAGTCTGACTCTGACTCTGGCTACCTATGCTCCTCTCTT 3000	CAGCAATCAGCTCCAGTGTAAGTCTGACTCTGGCTATGCTCCTCTCTTT 3000 CTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCTCTTCTTCACAAGAGTGAGGA 3060	

us-09-751-797-8.rni

```
T Cell Inducible Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2630
                                                                                                                                                                                                                                                                                                                                                                                                                                            2150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2570
                                                                                                                                                                                                                                                                                                                                                                                                2090
                                                                                                                                                                                                                                                                                                                                                                                                                     412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              951
                                                                                                                                                                                                                                                                                                                            20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 891
                                                                                                                                                                                                                                                                                                                                                                  TACCATGCTATCCGACGAGGATGTTCCCCTGATGTTTTTGCCTTTTTGCTCTCTCGCTAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2571 ACCCACTGCGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCATCTTTCTCTCTCCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCATCTTTCTTCTCCCATACCGCCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGCGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2391 AGAACTGGGTCTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAATACTTTCCATTTCTCTGTGCTCTCTTCTGAACTCATACTCTCTTGGCTACTCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    832 CAATACTTTCCATCCTGTTGTGCTCTTCTGAACTCCATACTCTCTTGGCTACTCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1971 TACCATGCTACCGGAGGAACATGCTCCCCTGATGTTTTTGCCTTTTGCTCTCACTAAC
                                                                                                                                                                                                                                                                                                                                                                                                              353 AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTTGTGCGATCGCTGATGGCTGTCCTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTGTGGGCCCAGGAGGAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTATGCTGGCCAAGGAGGTACAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGCGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 4245.2; DB 3; Length 5935;
Pred. No. 0;
0; Mismatches 178; Indels 487; Gaps
                                                     RESULT 4
US-09-178-973B-17
Sequence 17, Application US/09178973B
Sequence 17, Application US/09178973B
Patent No. 6274710
GENERAL INFORMATION:
APPLICAMT: Dumoutier, Laure
APPLICAMT: Louhed, Jamila
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode 7 CF
TITLE OF INVENTION: (TIF8)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT PAILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
FEVENT: 605
                                                                                                                                                                                                                                                                                                       57.0%;
88.3%;
                                                                                                                                                                                                                                                                                                     Query Match 57.0°
Best Local Similarity 88.3°
Matches 5039; Conservative
                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: MUS musculus
TGTAT 7445
                     7441 TGTAT 7445
                                                                                                                                                                                                                                                                                 US-09-178-973B-17
                                                                                                                                                                                                                                               LENGTH: 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2511
 7441
                                                                                                                                                                                                                                                                                                                                                                           293
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2331
                                                                                                                                                                                                                                                                                                                                                                                                                                                2091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
               셤
                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                       ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
 à
                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                 0999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7440
                                                                                                       6540
                                                                                                                             6540
                                                                                                                                                    0099
                                                                                                                                                                                                                                                                                                                                           6840
                                                                                                                                                                                                                                                                                                                                                                                       6900
                                                                                                                                                                                                                                                                                                                                                                                                                                                           0969
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7380
                                   6420
                                                         6480
                                                                              6480
                                                                                                                                                                           9600
                                                                                                                                                                                                                         0999
                                                                                                                                                                                                                                               6720
                                                                                                                                                                                                                                                            TAAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAAGCTAAC 6720
                                                                                                                                                                                                                                                                                             6780
                                                                                                                                                                                                                                                                                                                                                      GTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAATAGTGT 6780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGTGGTTTTTGTGTGTGTTGTGTGTGTGGGGTTTATGCATGTGAAAGCCAGAGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATATTAGGTGTTCTTCTCTATCAGTCTTTGCCTTATTATTTGAGACAGGGTCTGTCACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAAAGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                     TTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCCATTTCCATATCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCATATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATATATGTAAGTTTATTATAAGTATACATTTTATTTATGTCAGTTTAATATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATATATGTAAGTTTATTATTATATAAGTATACATTTTATTATTATGGCAGTTTATTATTAATATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACAATAACTATGGAAACAAGATATCTTAGGCTTTTAATAAACACATGGATATCATAAATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCATAAATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          reretreretrerecertranarareacanacarcarcarcarcarratacea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAAGTTGGTTCCTGGAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAAGTTGGTTCCTGGAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGTGGTTTTGTGTGTGTGTGTGTGTGGGGGTTATGCATGTGAAAGCCCAGAGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATTAGGTGTTCTCTCTATCAGTCTTTGCCTTATTATTTGAGACAGGGTCTGCTCACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGGGCAAATCATATTATACTCATGCTAAAAATACATTATGTTGATTATTAATCTTTTAG
                                                                      AGAAGGCTGATACTTGGTTTTGGTGCTCAGCAAGCAATGTCACCAGCTCTTTCTAACTG
                                                                                                                   GTACCACTTTAGAAAATGCTACCTGTGCTCAAATTGGTTTGTATTCTTATTTTCATAGCT
                                                                                                                                                                   TGGAGAGAGTCGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAG
                                                                                                                                                                                                  TAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGGGAAGCTAAC
                                                                                                                                                                                                                                                                                            CAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACAATATTT
             TTGGGCAAATCATATTATACTCATGCTAAAAATACATTATGTTGATTATTAATCTTTAG
                                                         AGAAGGCTGATACTTGGTTTTTGGTGCTCAGCAAGCAAATGTCACCCAGCTCTTTCTAACTG
                                                                                                     GTACCACTTTAGAAAATGCTACCTGTGCTCAAATTGGTTTTGTATTTTTTTATAGCT
                                                                                                                                                     TGGAGAGAGTGGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTCTCTGAG
                                                                                                                                                                                                                                                                       . 1999
                                                                                                                                                                                                                                                                                                                                                                 6781
                                                                                                                                                                                                                                                                                                                                                                                                               6841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7321
                                                                                                                                                     6541
                                                                                                                                                                                                                                                                                                                    6721
                                                                                                                                                                                                                                                                                                                                                                                         6841
                                                                                                                                                                                                                                                                                                                                                                                                                                     6901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 7381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7381
                                   6361
                                                          6421
                                                                                 6421
                                                                                                       6481
                                                                                                                              6481
                                                                                                                                                                            6541
                                                                                                                                                                                                  6601
                                                                                                                                                                                                                         6601
                                                                                                                                                                                                                                                6661
                                                                                                                                                                                                                                                                                              6721
                                                                                                                                                                                                                                                                                                                                           6781
                                                                                                                                                                                                                                                                                                                                                                                                                                                            6901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6961
             6361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                     6666
                                                                                                                                                                                                                  8 6 8 6 8 6 8
                                                                                                                                                                                                                                                                                                                                                                                  8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
             8 6
                                                      के क्षे के
```

3703 ATTCCCCAAAGACGAGACAGCTCTTCTGTAAGGAAGGACCTGGATTTCAGTGTCCTAG 3762		CCAGTCCCTTCTACTTTGTAACATTTTATTTGACTTGTCTACTATCTGGTCCATTACTCG	4183 AGTCACAATTCTGGAGCTAGCAGAAAGCTTAGCCAGTCTCATGAGCACTTGGTCG 4242	4303 CTTGCCTAGTGGCCATGTGTAATTACTTTGGCTTAAGTATTTGGGAAAGCCAGTTC 4362	4423 TACTAGAGATGATTTTTGAGCTCATTAAACGGATGCTCTGAAATGTGGCAAAATCAACCC 4482 [4543 AATAGCTATCATCTTAAATTAAAATATAGGCCTATATATATATTTAAGATTAAACA 4598		2996 TCATTTCTTAGTTATTTTTTTTTTCTCACACCTGATCAGCCACTAGTAAGCACCT 3055 4774 ATCTGCTGTGAGGCTATTATATGACTTTACAGCAAACAATTGCTGTGTGTG
8 8 8 8 8 8	8 8 8 8	8 8 8	8 6 6 6	8 6 6 6	8 8 8	8 6 6	& & &	원 장
CACTTAGGGTTTTCTCTTTCAGGCCAGCCTTGCAGATAACAACACAGACGTCCGGCTC [1 TACCTGCAGGCTAAGATCAGTGCTACCTGATGAGGTGGTGGTCACTTCACCTGGAA 2 TACCTGCAGGCTAAGGATCAGTGCTACCTGATGAAGCTGGTCCACTTCACCCTGGAA 1 GACGTTCTGCTCCCCCCAGTCAGACAGGTTCCAGCCTACATGCAGGTGCTCTTCCTTTC	1252 CIGACCAAACICAGCAAICAGCICAGGICIGAGTCIGGCICAGCIACCIAIGCI 1311 2991 CCTCTCTCTTCTTCTTTTTCCAGTAAGAACCCGAGGTCCTGCCTCTCTCT	3111 CTTTGGCTTCAATTGAGTAATACTTTGAGTTTGTATGAGTGAAGCTTTATTTGTTTTATC 3170 1432 CTTTGGCTTCAATTGAGTAATACTTTGAGTTTGTTAAGCTTTATTTGTTTATT 1491 3171 CATGGAAAGAAATCAACTCAAATTCTGTAGGAAGAAGATCTTGGGAACGAAAAAAG 3230 1492 CATGGAAAAAAATCAACTCAAATTCTGTAGGAAGAAGATCTTGGGAACGAAAAAAG 1551	3231 CCTAGATAGAGAAACTGGTGAGTATAGTACTTATGGGGGGGGGG	7 GCATGGAGATCCACTGAGTACAAGTACTTGTGGGGGGGGAATGGCACAGAGCAAAAGT 0	1698 TGAAGGGAAAGAGGAGGGCCTCAATGTTGGGGGTGTGAAAGGTCACTCCTTT 1757 3463 TTCCATGTGATGGAGAGATTAAGAAAACCAGTGTGAGTTTGATGTCTTCAGACCCCC 3522	1818 AA	

Page 14

```
2150
                                                                                                                                                                                                                                  2210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2930
                                                                         2030
                                                                                                                            2090
                                                                                                                                                                                                                                                                                    2270
                                                                                                                                                                                                                                                                                                                                        2330
                                                                                                                                                                                                                                                                                                                                                                                         2390
                                                                                                                                                                                                                                                                                                                                                                                                                                            2450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCAGGACACATATACTGAATTTTATCTACAGAGGCGCATTTAGAAAGCCACCACGACTG 2510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2511 CAATACTTTCCATTTCTCTGTGCTCTTTCTGAACTCATACTCTTGGCTACTCCTGAG 2570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGGCTCTGGCTACCTATGCT 1311
                                                                                                                                                     412
                                                                                                                                                                                                        472
                                                                                                                                                                                                                                                           532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              951
                                                                                                    352
                                                                                                                                                                                                                                                                                                                                                               651
                                                                                                                                                                                                                                                                                                                                                                                                                   711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACTTAGGGTTTTCTCTCTTTCAGGCCAGCCTTGCAGATAACAACACACAGACGTCCGGCTC
                                                                                                                           652 GGGGGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGACTGGATCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAATACTTTCCATCCTGTTGTGCTCTCTTCTGAACTCATACTCTTGGCTACTCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCCACTGCGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCCTTGTCACCCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CACTTAGGGTTTTCTCTCTTTCAGGCCAGCCTTGCAGATAACAACACACAGACGTCCGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATCGGGGAGAAACTGTTCCGGAGGAGTCAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCGGGGAGAAACTGTTCCGAGGAGTCAGTGTAAGTCCTCACTGTGATGAGCAGGCCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TACCATGCTATCCGACGAGGATGTTCCCCTGATGTTTTTGCCTTTTGCTCTCTCGCTAAC
                                                                                                                                                                                                                                                                                                                                                     GCATCTCTTTCTCTCCATACCGCCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCCACTGCGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGCGGGAGCTGGTGGACCCTCTGGGATAGTCTGACGTATGACCCTGCTGCTTCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCGGGAGCTGGTGGACCCTCTGGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTC
                                                                          1971 TACCATGCTACCCGACGAACATGCTCCCCTGATGTTTTTGCCTTTTTGCTCTCTCACTAAC
                                                                                                                                                                                 GAAATCTATGAGTTTTTCCCTTATGGGGGACTTTGGCCGCCAGCTGCCTTCTCATTGC
                                                                                                                                                                                               GAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTGCTTCTCATTGC
                                                                                                                                                                                                                                  CCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                 CCTGTGGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                    CAACTTCCAGCAGCCGTACATCGTCAACCGCACTTTATGCTGGCCAAGGAGGTACAGCT
                                                                                                                                                                                                                                                                                                       CAACTICCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCT
                                                                                                                                                                                                                                                                                                                                                                                           GGGCGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGACTGGGTCTTTTTTTTTTTTTTTTTTTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TACCTGCAGGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGACTCTGGCTACCTATGCT
                                                  487;
                       Length
                                                Indels
                        ä
                       Score 4245.2; DB 3;
Pred. No. 0;
0; Mismatches 178;
                       Query Match
Best Local Similarity 88.3%;
Matches 5039; Conservative
JS-09-419-568F-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2571
                                                                                                    293
                                                                                                                              2031
                                                                                                                                                      353
                                                                                                                                                                                2091
                                                                                                                                                                                                          413
                                                                                                                                                                                                                                  2151
                                                                                                                                                                                                                                                                                      2211
                                                                                                                                                                                                                                                                                                               533
                                                                                                                                                                                                                                                                                                                                        2271
                                                                                                                                                                                                                                                                                                                                                                  593
                                                                                                                                                                                                                                                                                                                                                                                           2331
                                                                                                                                                                                                                                                                                                                                                                                                                                            2391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1252
                                                                                                                                                                                                                                                            473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                셤
                                                                                                                           à
                                                                                                                                                                            à
                                                                                                                                                                                                    g
                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                          ď
                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                Б
                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jamila
APPLICANT: Renauld, Jamila
APPLICANT: Renauld, Jamila
TITLE OF INVENTION: ISOlated Nucleic Acid Molecules which Encode T Cell Inducible J
TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIP8) The Proteins Encoded, and Uses Thereof
CURRENT PILLING DATE: 1999-10-18
PRIOR PELICATION NUMBER: US09/154,243
PRIOR PAPLICATION NUMBER: US09/178,973
PRIOR PELING DATE: 1999-07-16
PRIOR PELING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 29
                                                                                                                                                                                                                                                                                                                            7005
                                                                                                                                                                                                                                                                                                                                                                                                                                 7124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7184
                                                                                                                                          5451
                                                                                                                                                                                                                                                                                                                                                     5691
                                                                                                                                                                                                                                                                                                                                                                                                         5751
                                                                                                                                                                                                                                                                                                                                                                                                                                                           5811
                                                                                                                                                                                                                                                                                                                                                                             AGTITATIAATAIGGAITIAITIATAGAAACAITAICIGCIAIIGAIAITI-AGTAIAAG 7064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGATATCATAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCA
                                                                             CTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA
                                                                                                                               AAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGAT
                                                                                                                                                                                                                                   GCAAATAATTTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACA
            GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGGAAACGAAGAACTG
                                                                                                                                                                                                                                                                         TTGTTTGAAAGGAGGTTACCTCTCTTAGAAGAAAAGCCTATGTAACTTCATTTC
                                                                                                                                                                                                                                                                                                                          CATATCCAATATTTTATATATGTAAGTTTATTATTAAGTATACATTTTATTATGTC
                                                                                                                                                                                                                                                                                                                                           CATAACCAATACTTTATATATGTAAGTTTATTTATTATAAGTATACATTTTATTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                        AGITITATITAATATGGATTTTATATAGAAAATTATCTGATGTTGATATTTGAGTATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                 GCAAATAATATTTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTG
                                                                                                               AAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGA
                                                                                                                                                                  AAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGAT
                                                                                                                                                                                                                       TCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 29, Application US/09419568F; Patent No. 6331613; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTTG 7248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tric 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -09-419-568F-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 5935
                                                                                                                                         5392
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5872
                                    5272
                                                              6646
                                                                                     5332
                                                                                                                9019
                                                                                                                                                                    9919
                                                                                                                                                                                            5452
                                                                                                                                                                                                                       6826
                                                                                                                                                                                                                                                5512
                                                                                                                                                                                                                                                                         9889
                                                                                                                                                                                                                                                                                                  5572
                                                                                                                                                                                                                                                                                                                            6946
                                                                                                                                                                                                                                                                                                                                                     5632
                                                                                                                                                                                                                                                                                                                                                                              2006
                                                                                                                                                                                                                                                                                                                                                                                                        5692
                                                                                                                                                                                                                                                                                                                                                                                                                                 7065
                                                                                                                                                                                                                                                                                                                                                                                                                                                          5752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7245
            8 6
```

CONTRICTACTH CTANCET THAT THE ACTUAL CONTRICTOR CONTRIC	5130 GTTACCTTGACACCTGGGCTTGGATGTTAGCATGCCAAAGGCACACACA
8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	č
1312 CENTETETETETETETETETETETETETETETETETETET	

8 6 8 6 8 6 8 6 8

8 8 8

8 & 8 &

8 8 8

8 8 8 8 8 8 8 8 8 8 8 8 8

2271 GCATCTCTTCTCTCCATACCGCCTTGCCATTTCTCTGAAGCACTTGCAAACTCTTAG 2330	TCAGGACATATACTCTCTCTCTCTACAGAGGCGCTTTAGAAAGCCACCCAC	1012 ACCTAGGGGTATTCTCTCTTTTTGGGCGACCTTGGAGTAGACAGAGTGCGGCTC 1011 1012 ATCGGGGGAAAACTGTTCGGGGGGCGCGCTTGCAGATAACAACACAGAGCTCGGGCTC 1011 1012 ATCGGGGGAAAACTGTTCGGGGAGTCAGGTTGAGCAGGCTTGGGGGTTGAGCAGGCTTGGGGGTTGAGCAGGCTTGGGGGTTGAGGAGGCTGGGTTGGGGTTGAGGAGGGTTGGGGTTGAGGAGGGTTGGGGTTGAGGAG
8 8 8 8 8 8	8 6 8 6 8 8	8 4 8 4 8 4 8 4 8 4 8 8 8 8 8 8 8 8 8 8
Qy 6946 CATATCCAATATTTATATATATTATTATTATTATTATTAT	5812 TGARTATCATAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAATACCATCA 7185 TCATCATCATTACCCAATCATCTCTGTCATGATTTTTCTCCCTTTTAATATCAATACCATCATAAA 7185 TCATCATCATTACCCAATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAA 7245 GTTG 7248 7245 GTTG 7248 5932 TTTG 5935	Packer P

us-09-751-797-8.rni

 6
34.7 GENTGRIGHTON, TOTAL CONTRIBUTION OF THE PROPERTY OF THE PROPETTY OF THE PROPETTY OF T

6 6 6 6 6

TGAATGTGGGGTCTTTGAGTCAAGGCTTTTGAGTTGAGCACTCATCAATAGTTGATCATGG CGTATGTGGGTCTTTGAGACAAGGCTTTTGAATTGAGCGCTCATCAATAGTTGATGTGG TCAGGTGGAGGCTACCTGTCAGGCCGAGCCCTGCTGGCTTCGCACTTAACATCTCCAGG TCTCAGTATCACTTCCTGCTACTTAGCACAGTTAGAGAGTTGAGCAAACCTTTTTTTCCAA TCTGGGAAGGCAGCAAGCATTGAGAGGGAAAGGGAAAAAC--AATGTAGAGA GGTGGATTAGGTGGATCGCAGAAGGACTTGCTTTGCCATTTGAATCTGGGTTTTGTCTC GCAGAGGCAGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGA TTAAGAAAGCACAGCAGCTGGCATGGTGGCCCATGCCTTTAATCCCAGCATTTGGGAG TCTGGGAAGGCAGCAAG----TGAGAGGGAAATGGAAAGGGGAAAAAAACAGAATGTAGAGGA CTTGAACAGCTACAAATCCTCTACCAGACGATTTTTCTTGGAACAATCTAGAA----GGT AGTGGATTAGGT-GATTGCAGGGGGACTTGCTTTGCCATTTGAATCTGGGTTTTTGTCTC

AGTITATIAATAATATATATATAGAAACATTATCTGCTATTGATATTT-AGTATAAG GCAAATAATATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACA CATGATTITAAGGTCTIGGGCAAATCAIATATATACTCAIGCTAAAATACATTATGTIGA TATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGGTGTCCTTAGGTCAGAAAGG CTTATTTTCATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCT AAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGA GTTG 7248 90/9

ð

CCCCCACTAAAATTTAATTGACAAAAGACTGTGTAATTTGTGGGATACAGTGTGATAATT

8 8

8 6 6 6

1925

1831

1891

2129

2151

2211

2189

2271

2249

2331

2345

2405

2679

2617 2739

2619

2676

2799

2859

```
TCTATITICTATITICAAGGICTCAGGACCATITICCIAICTIGGCCTICAGGACACATAIAC 2465
                                                                                                                                                                                                                                                                                                                                                                 2010 GCCTTTTGCTCTCTCACTACAGGCTCTCCTCACTTATCAACTGTTGACACTTGTGCG 2069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                232 GCTGGCTAAGGAGGTATACATCTCAATCCTGCTCTTTCTCGTTGGATCTACTTGGAATCC 2391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2392 aaatagtrictraaactitrictricagagicatictraagagitraagaacciactigat 2451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2452 CCCTGAGG--GTAGATAAATTTTCTGTTTTTCAGAGACTCTTTGGGAATCTGGCTTTTT 2509
                                                                                                                                                                                                                 AACTICIGCCICTCCCATCACAAGCAGAGACACCTAAACAGGTAAGCACTCAGACCTCTA 1951
                                                                                                                                                             1809 IGACGITITAGGGAAACACITGCAICTC---AAGGIGGAAAGGAIAGAGGIGGIGITITG
                                                                                     1866 TGGGCTCCTGTGGTGGTTAGGTCGTTCTCAGAAGACAGTACTGGAAATTAGATAATTGCT
                                                                                                                                                                                                                                                                                                                       2044 TGGTACAATTGGTTAGATGAAATACTTCTTGACTAATTTTGTTCCTTCACGTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                2212 cagcieccircrircrirascecririnasnasasasasascasecracecentasecre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ccacriccaecricacaagiccaacriccaecaccriatararcaccaaccecacricar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2286 CATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAGGGGGGCGCTTTATCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2510 irririricirgaacrrcricc-----irccairriggicirrargaracaraiga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTGTCACCCAGGCACTTAGGGTTTTC-TCTCTTTCAGGCCAGCCTTGCAGATAACAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCAATGTCCAGACCCTTAGTCTTTTCTTCTTCCAGGCTAGCTTGGCTCATAACAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GATGTCATATCATTCACAATACCAAAAAACCCTGGTGTCCCGGATGGCTATAAAAGCAGC
                                                                                                                                                                                                                                             1984 AGCTICTACCTTCCCCGTCACAAGCAATCTTCAGAACAGGTAAGCGTTTCGGCAAACT
                                                                                                                                                                                                                                                                                         CAGACAA - - TCATCTGCTTGGTACCATGCTACCCGACGAACATGCTCCCCTGATGTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                   2104 Trccaccacerrcrccrrccc-----casrcaccacrrcrcaccarracaarr
                                                                                                                                                                                                                                                                                                                                                                                                                                       2070 ATCTCTGATGGCTGTCCTGCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGCTGCTTCTTCATTGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCGGTGCAAGCTTGAGGTGTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGGTCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recercierecarierreraakerearecaearereaarrereerrrrage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----CTGAGACCCACTGCGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAGTGTAAGTCCTCACTGTG
TGACGTTTTAGGGAAGACTTCCCCATCTCTCAAGGTGGGAAGGCTTGGAGGTGGTGTCTTG
                                                                    TGGCCTCCTATGGTGGTTAGGTACTTCTCAGAAGACAGGACTGGAAATTAGATAATGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTCTCTGTGCTCTTCTGAACTCATACTCTCTTGGCTACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTGGCCAAGGAGGTACAGCTGCATCTCTTTCTCT-----
                                                                      1772
                                                                                                                                            1832
                                                                                                                                                                                                                  1892
                                                                                                                                                                                                                                                                                           1952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2618
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2677
1712
                                                                                             g
                                                                                                                                                                         g
                                                                                                                                                                                                                                             쉱
                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ⋩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     쉱
                                                                                                                                        ò
                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                  Š
                          Squence 17185, Application US/09949016

Patent No. 6812339
GEQUENCE 17185, Application US/09949016

Patent No. 6812339
GENERAL INPORMATION:
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
CURRENT APPLICATION NUMBER: 60/241,755
PRIOR APPLICATION NUMBER: 60/231,768
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOCTIVARE: FEASESQ for Windows Version 4.0
SEQ ID NO 17185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1270
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               71;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CACAGAATATAGGACACGGGTCTTTTATTTCTGGTCACTTCTAAAGAGATAAGAATCTAT 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1750 ATGTAGGGTTTAGAAATTTCTGGGATTTGTCTGTAAAA-TACCCTCCGGGCTCTAATAG 1808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GATAAAATTATTATAATAATGG-AATGATCTGTTAGCTGTCATTACCATTTACTTTAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAGCTGGTAGGAAAATGAGTCCGTGACCAAAATGCTTACTCAGTCACTATAGGAGATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ratacacacacatararacitertaracearratraresaarrararengaearrarere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           agaagtgragaartaggraaaartrtaagargaactararccarggrarrcrrrrarrrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>aaaaaaagtritacaigtraagaaaaaggagaicagaitritcagcatragtaitracaaa</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTAACTTGACCTTGGCTATGATTTCAACCTTTGTATTTGCATCTACCATAAC-AGTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGAACCAGAACATTCTGTGGCAATGGGAGCTGTGAAGAAAGCCAACATTCTTAATAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTAATTGTTATGATCACTTAAAATAGTTCCAAAAAGGGAAGAAAACAATAATTAGATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAAAAAACAGCTAGTTATAGTTTTAGGATTCCATATACTAAAA------AAAATAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCAAGACAGTTTTTTGAAACATAAGTCTGGTTTAGAATTCAGCATGTTTAAAAATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GATATAATTATTTAAAAATTGAAATAATCTCCCAAGTTTTCATTATGGCTTATTTCAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGAGGATATAGGACATGGGTCCTTTTTTTCTGATCACCTCCAATGAGATAAGAATCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAAGTTGGTGGGAAAATGAGTCCGTGACCAAAACGCTGACTCAATAGCTACGGGAGATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGGCTGCTCTACTCAATCAGAA-TCTACTACGGCAAAGCCATGGCTTTCTTTGAAAA--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ---ccencitragaagatticigggattigigigcaaaagcaccitgitgeccicacce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TATCCATCTATATAGTATGTTATTGTAGGCTCATTTAAAAATAATATTTTGAGACTTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAAAAATCTATGCTT----AAAATGTCTATTAGATTGTTCACTACCGATATTTCCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -----CTTGCACAAGTAAAATGTCAGAGAATTAGCAAATGTATAGTATTATTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 1081; DB 3; Length 8888;
Pred. No. 3e-263;
0; Mismatches 2300; Indels 509;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 56.7%;
Matches 3680; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                         ; ORGANISM: Humaii
US-09-949-016-17185
                   09-949-016-17185
                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1478
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1538
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1598
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
```

us-09-751-797-8.rni

1915 CTURIORANICHEGEOTOLACTICANTACTICACIONAL HILLION
6 2 4 4 5 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
The control of the

8 6 8 6 8 6 8

2274 TCTCTTCTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAACTCTTTAGGGG 2333 269 AATCCTGCTTTCTCTTGGAATCTTGCATTGTTTTTTTTTT	
8 6 8 6 8 6 8 6 8 6 8 6 8	8 4 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
Qy 6992GAAAGGAGGTTACCTCTATAGAAAAAAAGCTTATGATACTTCA 6941 Db 7097 TTCCATAAAAAAGGTTACTTCCTTTAGGGGAAAAACCCCTAAATAGCTTCATG 7156 Qy 6942 TTTCCATAATCTATTTATATATATATATATATATAAAGCTTCATG 7156 Db 7157 TTTCCATAATCGATTTTATATATATATATATATATATAAAGACTGCATT 7216 Db 7217 TTTTATATATATAATATGAATTTATTATATATAAACATCCATTTATATAAAACACATTATT	PERULY 8 US-09-419-568P-25 US-09-419-568P-25 US-09-419-568P-25 PERURAL NO. 231613 PERURAL NO. 231613 PERURAL NO. 231613 PERURAL NO. 231613 PERURAL NO. 231614 PERURAL

8686

6 6 6 6 6 6

a

6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8
1319 GANACIACTTOTOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG

```
GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 25, Application US/09354243B; Patent No. 6359117; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-354-243B-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-354-243B-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Sim.
Matches 2644;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2214
                   6404
                                                                                                   6464
                                                                                                                                           4569
                                                                                                                                                                                    6524
                                                                                                                                                                                                                           4626
                                                                                                                                                                                                                                                                    6584
                                                                                                                                                                                                                                                                                                             4686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ठ
                                               a
                                                                                                à
                                                                                                                              g
                                                                                                                                                                       ð
                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6403
                                                                                                                                                                                                                                                                                                                                                                                               5902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACTCATCAATAGTT------------------------GATCATGGTCAGGTGGAGGGC 6058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TACCTGTCAGGCCGAGCCCTGCTGCTTCGCACTTAACATCTCCAGGTCTCAGTATCACT 6118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rrcarradididadendeacridaaarrdareccriderecer-creacrederedaa 4460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAATACAAGAACAATAGCTGATGAGCTAAAAAGTCCATGCATAAATCTCATACTGTTT 4161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   raagaaagrirargaarricrerraggerecarreaaagcrerecegeceargregee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGATCCCCCAGATCCCAGCCTCACT 4341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4342 rcagiciccriscrciastrangaassassassastraiters rcasicirriaaakass
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cgarnaagninggganccicarcrecaringaci----regagagagagaaaahidaarer 3861
                                                                                 CAGAGCTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCGGTTGGGGGTAAA 3521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   raccaccraratricicaritra de la secona de la companio del companio de la companio de la companio della companio d
GAAAGCA-CAGGAGGGAGAGCAATGTTGTTCAGAGAAAAGATCAACAGGAGGAGAAACTGT 3461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -AACCCCCACTAAATTTAATTGACAAAAGACTGTGTAATTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ----TCTATGTGTGCATTGTGCAAGGTTCAATAAGATAGATTAATAGGCCCATCAACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGTGTCTTAGGTCAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGCATGATTTTAAGGTCTTGGGCAAATCATATTATACTCATGCTAAAAATACATTATGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aradarragadgaarricadraddgaardcrrrrrcacrrgaarringdgrrrccrcr--r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGCAAAGCCCCGACCACATGGGTTGAATGTGGGGTCTTTGAGTCAAGGCTTTTTGAGTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ccrraargrarragaracarggrarcaagrcarrragagragagargrrrraaarcag
                                        CCACAGGTGTTAAGTAGG
                                                                                                                          AACAGTCCAGGGTGGGCTCATGTAATAGAATGGAACAGAGCGAGGGAAGATAAGCTACAA
                                                                                                                                                                                                          AGTITCATAGGGTC-CGGAGTCTTAAAGATACAAAATAGCTGC--TTGGGCTTCATAACA
                                                                                                                                                                                                                                                                                       AGGACTIGAACAGCTACAAATCCTCTACCAGACGATTTTTTTTTGGAACAATCTAGAAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGTGGATTAGGTGATTGCAGGGGGACTTGCTTTTGCCATTTGAATCTGGGTTTTTGTCTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TATGACTCCTACCTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAGTGCCAATCATTTGGCTTCCCTGGACCACCTTGAAAGAATTGTCTTGGTACACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCTGCTACTTAGCACAGTTAGGAGTTGAGCAAACCTTTTTTCC-------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCATTGAGGTTGAAAGCGTCACCCTTTTTACCCTCGAATGGAGGAGGAAAGAAGGGGTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGATACAGTGTGATAATTGA------
                                        CAGAGCTCCCCCGAAGACCA----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4402
                                                                                 3462
                                                                                                                          5486
                                                                                                                                                                 3522
                                                                                                                                                                                                          5546
                                                                                                                                                                                                                                                   3581
                                                                                                                                                                                                                                                                                            5603
                                                                                                                                                                                                                                                                                                                                    3641
                                                                                                                                                                                                                                                                                                                                                                           5663
                                                                                                                                                                                                                                                                                                                                                                                                                    3689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4461
                                                                                                                                                                                                                                                                                                                                                                                                                                                           5723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 6 8 6 8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
유
                                                                                                                  8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                     8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6 6 6 6 6 6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8 G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                     के नि के
                                                                       a
                                    ò
```

APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renald, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa
TITLE OF INVENTION: (TIFs)
TITLE OF INVENTION: (TIFs)
TITLE OF INVENTION: (TIPS)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.1
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
NUMBER OF SEQ ID NOS: 29
SEQ ID NOS: 29
SEQ ID NOS: 29 2382 4685 6643 4745 2093 2213 2273 2153 148 88 2154 GIGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGGGCAAGCTTGAGGTGTCCAA CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCTGCA AATCCTGCTCTTTCTCGGATCTACTTGGAATCCAAATAGTTCTTAAACTTTTCTTCA 2334 CGCTTTATCTCCGCAGGTCTCACTACCTATGTTT------TCTGTCTCTTTAGAG crecrrecedareacearridereaarraaaarrarerereaariddegeeeerdeaaa 89 ATCTGTGAGCTCTTTCCTTATGGGACCCTGGCCACCAGCTGCCTCCTCTTGGCCT 2274 TCTCTTTCTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAGGGG 1509 náchángáangririhadaandcriaaaáchodáriricndrocárdáacdraarcrio CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAA CCAGCTCTTTCTAACTGGTACCACTTTAGAAAATGCTACCTGTGCTCAAATTGGTTTGTA TTCTTATTTTCATAGCTTGGAGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTG CTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGAAGAAACGAAGAAC 9.2%; Score 686; DB 3; Length 4797; 53.8%; Pred. No. 3.6e-163; .ive 0; Mismatches 1875; Indels 393; Length 4797;

```
RESULT 11
US-09-419-568F-7

| Sequence 7, Application US/09419568F
| Patent No. 6331613
| Patent No. 6331613
| GENERAL INFORMATION:
| APPLICANT: Dumoutier, Laure
| APPLICANT: Louhed, Jamila
| APPLICANT: Renauld, Jean-Christophe
| TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
| TITLE OF INVENTION: (TIP8) The Proteins Encoded, and Uses Thereof
| FILE REFERENCE: LUD 543.2
| CURRENT APPLICATION NUMBER: US/09/419,568F
| CURRENT PILING DATE: 1999-07-16
| PRIOR PILING DATE: 1999-07-16
| PRIOR PILING DATE: 1999-07-16
| NUMBER OF SEQ ID NOS: 29
| LENGTH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7014
990 ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 1049
                                              1050 TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1015 ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       630 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         870 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5835 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8895 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAAGCTTGGAGAGAGAGAGAGAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                570 rereagaarieerreegrereageeagaagaageragaaaaceaagaacreereer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6535 ATAGCTTGGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 601.4; DB 3;
Pred. No. 4.9e-142;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8.1%;
ilarity 99.8%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 602; Conserv
                                                                                            7135 AAA 7137
                                                                                                                           1110 AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-419-568F-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       510
                               7075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6955
                           Š
                                                    g
                                                                                          ઠે
                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g. 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                APPLICANT: Dimoutier, Laure
APPLICANT: Dimoutier, Laure
APPLICANT: Dimoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: ISOJATEd Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIFs)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATATITITATIGICACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGTTACCTCTCTTTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGAGGTTACCTCTCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                TTCTTATTTTCACAGCTTGGAGAGAGAGAGAGAGATTTG
                                                                                                            CTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAAATGAATAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATATTTTATTGTCACTGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6535 ATAGCTTGGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                           6644 IGCTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTT 6695
                                                                                                                                                            4746 TAACCCCTTTCCCTGCTAGAATAACAATTAGATGCCCCAAAGCGATTTT 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8.1%; Score 601.4; DB 3; Length 1119; 99.8%; Pred. No. 4.9e-142; Live 0; Mismatches 1; Indels 0;
                                                                                                                                                                                                                                                     ; Sequence 7, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.8
Matches 602; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1119
                                                                                                                                                                                                                       RESULT 10
US-09-178-973B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OKGANIAN: 114
US-09-178-973B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            810
                                              4626
                                                                                                         4686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7015
                6524
                                                                             6584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       930
                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 7
                                       셤
                                                                             ઠે
                                                                                                  g
                                                                                                                                        8
                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
```

```
6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6894
1050 TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6895 AGGAGGTTACCTCTCATTCCATTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAA 6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Jacobs, Kenneth
APPLICANT: Pittuan, Debra
APPLICANT: Pittuan, Debra
APPLICANT: Fouser, Lynette
APPLICANT: Fouser, Lynette
APPLICANT: Spaudding, Vikki
APPLICANT: Xuan, Dejun
TITLE OF INVENTION: Composition and Method for Treating Inflammatory
TITLE OF INVENTION: Disorders
FILE REFERENCE: GI5358 CIP
CURRENT APPLICATION NUMBER: US/10/084,298
CURRENT FILING DATE: 2002-09-10
PRIOR PILING DATE: 2001-06-23
PRIOR PLICATION NUMBER: 60/281,353
PRIOR PLICATION NUMBER: 60/281,353
PRIOR PLICATION NUMBER: 60/281,353
PRIOR PLICATION DATE: 1999-04-28
PRIOR PLICATION DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
SOFTWARE: Patentin Ver: 2.1
SSQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 713 GCTAACGTCCATCATTATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    773 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             533 AAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6715 GCTAACGTCCATCATCATAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6835 ATATTTTATTGTCACTGATGATACAACAGAAAATAATGTTTAAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6535 ATAGCTIGGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 598.2; DB 3;
Pred. No. 3.3e-141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
                                                                                                                                                                                                                                    US-10-084-298-3
; Sequence 3, Application US/10084298
Patent No. 6939545
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 99.5%;
Matches 600; Conservative 0
                                                                                                                             AAA 7137
                                                                                                                                                                  1110 AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3
                                                                                                                               7135
                       990
                                                         7075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                       ò
                                                                                                                               ઠ
                                                                                                                                                         쇰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                            Sequence 7, Application US/09354243B

Sequence 7, Application US/09354243B

Patent No. 635917

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIF9)
TITLE OF INVENTION: (TIF9)
TITLE OF INVENTION: (TIP9)
TITLE OF INVENTION: (1978)
TITLE OF INVENTION: (1989)
TITLE OF INVENTION: (1999-07-16
CURRENT APPLICATION NUMBER: 1999-07-16
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NOS: 29
   1075 TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAAGATTCATTGACA 6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAA 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6835 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA 6894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7015 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGGAGGTTACCTCTCATTCCTTTAGAAAAAAAGCTTATGTAACTTCATTTCCATATCCAA 6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      690 GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                750 TAGTGTCAAGTTGTCCATGAGACCAGAGAGTAGACTTGATAACCACAAAAGATTCATTGACA 809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  810 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA 869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      930 TATTTTATATATGTAAGTTTATTTATTATAAGTATACATTTTATTATTATGTGAGTTTATTA 989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             510 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAAACTGGACCTGCTGTTTATGTC 569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA 689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TATITIATATATGTAAGTTTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5335 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8.1%; Score 601.4; DB 3;
99.8%; Pred. No. 4.9e-142;
tive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 99.8
Matches 602; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Mus musculus
                                                                                                                             AAA 7137
                                                                                                                                                                AAA 1112
                                                                                                                                                                                                                                        US-09-354-243B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-354-243B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6895
                                                                                                                               7135
                                                                                                                                                                  1110
                       990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                          셤
                                                                                                                               ò
                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
```

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Lounded, Jamila
APPLICANT: Lounded, Jamila
APPLICANT: Lounded, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: ISOlated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
FILE REPERBNCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/09/419,568F
PRIOR APPLICATION NUMBER: US09/354,243
PRIOR PLING DATE: 1999-07-16
PRIOR PLING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR PLING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NOS: 29
                                                  7073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6714
                                                                                                                   7074 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTTAATAAACACATGGATATCA 7133
                                                                                                                                        1048 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAACAACATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCAAAAGATTCATTGACA 6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5835 ATATITIATIGICACIGAIGATACAACAGAAAATAAIGIACITIAAAAAAITGITIGAA 6894
867
                                                    ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT
                                                                      ATATGGATTTATTTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       628 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           508 AAAGCTTGGAGAGAGGGGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATAITITITITITICALTICALAATGCAACAGAAAAGTATGTACTITIAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 555.2; DB 3;
Pred. No. 2.6e-130;
0; Mismatches 23;
                                                                                                                                                                                                                                                                                                      ; Sequence 9, Application US/09419568F; Patent No. 6331613; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 7.5%;
Best Local Similarity 96.0%;
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Mus musculus
                                                                                                                                                                                      7134 TAAA 7137
                                                                                                                                                                                                                     TAAA 1111
                                                                                                                                                                                                                                                                                      US-09-419-568F-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-419-568F-9
                   928
                                                    7015
                                                                                    988
                                                                                                                                                                                                                       1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                   용
                                           8 8
                                                                                                       8
                                                                                                                                            g
                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Renauld, Jamila
TITLE OF INVENTION: ISOlated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIF9)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                      7134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6954
                                                    TATITIATATATGETAAGITIATTATTATAAGIATACATITIATTTATGECAGITTATTA 1012
                                                                                                                     1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5955 TATITIATATATGTAAGTITATTTATAAGTATACATTITATTTATGTCAGTTTATTA 7014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCCATTTCCATAACCAA 927
   893 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCCATTTCCATAACCAA
                                                                                                                                                                      TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT
                                                                                                                                                                                       TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                   ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       628 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATATTTTTATTGTCACTGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATAITITITATIGICATIGATAATGCAACAGAAAAGTATGTACTITAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGAGGTTACCTCTCATTCCTTTAGAAAAAAAGCTTATGTAACTTCCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATAGCTTGGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAGCTTGGAGAGAGCGGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAAAGGAAGCTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ή,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 7.5%; Score 555.2; DB 3; Best Local Similarity 96.0%; Pred. No. 2.6e-130; Matches 580; Conservative 0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                       ; Sequence 9, Application US/09178973B; Patent No. 6274710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-9
                                                                                                                                                                                                                                                                      AAA 1135
                                                                                                                                                                                                                                     7135 AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CENGTH: 1111
                                                                                                                                                                                                                                                                                                                         RESULT 14
US-09-178-973B-9
                                                                                                   7015
                                                                                                                                   1013
                                                                                                                                                                                                    1073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6895
                                    6955
                                                                  953
                                                                                                                                                                      7075
                                                                                                                                                                                                                                                                      1133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               868
                                                         8 & 8
   유
                                 ઠે
                                                                                                                                                                 ઠે
                                                                                                                                                                                         g
                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
```

Н

```
December 20, 2005, 13:17:16 ; Search time 3723.38 Seconds (without alignments) 16534.837 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                        1 gtctatcacctgcttaagat......gattaattaattatgtgtat 7445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /cgn2_6/ptcdata/1/pubpna/US07_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US08_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US08_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US09B_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10B_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10B_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10B_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10D_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10D_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10B_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10B_PUBCOMB.seq:*
/cgn2_6/ptcdata/1/pubpna/US10B_PUBCOMB.seq:*
GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9793542 segs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Published Applications NA Main: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                      - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                              IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minimum DB seq length: 0 Maximum DB seq length: 2000000000
                                                                                                                                                                                                                                                                                                    US-09-751-797-8
7445
                                                                                                                                                                                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                     Scoring table:
                                                                                                                      OM nucleic
                                                                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database
                                                                                                                                                                                    Run on:
```

		ď			SUPPLYING		
Result No.	Score	Query Match	Query Match Length DB	DB	ID	Description	
-	7445	100.0	7445	۳.	US-09-751-797-8	Sequence 8, Appli	
7	7445	100.0	7445	7	US-10-627-273-8	æ	
e	4245.2	57.0	5935	ო	US-09-751-797-29	53	
4	4245.2	57.0	5935	7	US-10-627-273-29	29,	
ß	989	9.2	4797	ო	US-09-751-797-25	25,	
9	989	9.2	4797	7	US-10-627-273-25	25,	
7	601.4	8.1	1119	m	US-09-751-797-7	7, A	
Ф	601.4	8.1	1119	7	US-10-627-273-7	7,	
σ	598.2	8.0	1166	'n	US-10-084-298-3	۳,	
10	598.2	8.0	1166	9	US-10-256-977-3	Sequence 3, Appli	
11	598.2	8.0	1166	œ	US-10-873-972-3	m	
12	598.2	8.0	1166	2	US-11-157-387-3	Sequence 3, Appli	
13	555.2	7.5	1111	m	US-09-751-797-9	6	
14	555.2	7.5	1111	7	US-10-627-273-9	6	
15	499	6.7	1050	2	US-10-090-365-40	40,	
16	499	6.7	1050	2	US-10-104-919-42	42,	
17	499	6.7	1050	œ	US-10-807-837-10	Sequence 10, Appl	
18	499	6.7	1050	σ	US-10-968-432-42	Sequence 42, Appl	
19	499	6.7	1050	2	US-11-045-944-40	Sequence 40, Appl	
20	272.4	3.7	778	m	US-09-746-375-37	37,	
21	272.4	3.7	778	7	US-10-395-741B-37	37,	
22	272.4	3.7	778	7	US-10-806-294-37	37,	
23	217.6	2.9	1177	10	US-11-013-741-1	,	

Sequence 1, Appli Sequence 1, Appli	Sequence 1, Appli Sequence 1, Appli	Sequence 1, Appli Sequence 14, Appl	7, A	Sequence 1, Appli	Sequence 14, Appl	Sequence 14, Appl	Sequence 1, Appli	Sequence 1, Appli	Sequence 5, Appli	Sequence 14, Appl	Sequence 14, Appl	Seguence 14, Appl	Seguence 1, Appli	Sequence 153, App	Sequence 125, App	Sequence 153, App	Sequence 153, App	Sequence 153, App
0 US-11-013-920-1 US-10-084-298-1	US-10-256-977-1 US-10-873-972-1	0 US-11-157-387-1 US-09-728-911-14	US-09-925-055D-7	US-09-746-375-1	US-10-090-365-14	US-10-104-919-14	US-10-395-741B-1	US-10-806-294-1	US-10-807-837-5	US-10-968-432-14	US-10-981-998-14	0 US-11-045-944-14	US-09-870-574-1	US-10-006-867-153	US-10-066-500-125	US-10-063-547-153	US-10-063-551-153	US-10-063-616-153
2 2	ဖစ	4.	'n	ო	Ŋ	ß	7	7	ω	σ	0	2	ო	ιO	Ŋ	Ŋ	ß	Ŋ
1177	1191	1191	1116	1116	1116	1116	1116	1116	1116	1116	1116	1116	1152	1152	1152	1152	1152	1152
2.9	2.0	9.0	5.6	2.9	2.9	5.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.9	5.9	2.9	2.9	2.9
217.6 217.6	217.6	217.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	215.6	214.2	214.2	214.2	214.2	214.2	214.2
24 25	26 27	28	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Louded, Jamila
APPLICANT: Louded, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (VIPS) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (VIPS) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (VIPS) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION NUMBER: US/09/175, 797
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 8
LENGTH: 1445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 TGAAATCTATGTCTTAAACAATCTTCAAGCCTCTAATATAGTGCTAACGACTGGAGTCCG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 GCAACCAGAGCACGTATTTATAGCATGGTGTTCTGACCATGCAGGTACAGAGTGGAATGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 GCAACCAGAGCACGTATTTATAGCATGGTGTTCTGACCATGCAGGTACAGAGTGGAATGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 CTGCTGTCCAACAGAGCTCTTGAGCACGCTCTCCTCTGTTTGCAATTTTATGTTCTTTGA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                181 TGAAATCTATGTCTTAAACAATCTTCAAGCCTCTAATATAGTGCTAACGACTGGAGTCCG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GTCTATCACCTGCTTAAGATTCTTCTAATTTATAAAAAAACTATTTCTTAAAATGAAAA 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GICTATCACCIGCTTAAGATTCTTCTAATTTAAAAAAAACTATTTCTTAAAATGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 7445;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Score 7445; D
; Pred. No. 0;
0; Mismatches
Sequence 8, Application US/09751797 Patent No. US20010024652A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 100.
Matches 7445; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-751-797-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
```

us-09-751-797-8.rnpbm

1311 TCTGTGGCANTGGGAGCTGTGAAAAAAAAAAAAAAAAAAA
8
11 TOACTOCOMOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCTOCOCOCT

8 6 8 6 8 6 8 6 6 6 6 6 6

QY 3541 ACGAGGGCGGCAGACTGGGAGACCTGGCATTTAGGGAAGGCGCGCTTTTCACACG 3 Db 3541 ACGAGGAGACTGTGGGAGACTTGGGAGATTTAGGGAAGGCGGCGCTTTTCACACG 3	9601 AGAAACTTTATGCTCATCTTGTGCTACACTCCCACCTTTGATGAGGTTCAGCTCAGGT 3	Oy 3661 TICGITICIACCGITCTIGCIACIGGAAACTICAGTAGGAITCCCCAAAGACGAGGA 3720	gy 3721 CAGCTCTTCTGTAAGGGACCTGGATTTCAGTGTCCTAGAGAACGAAATAGCTCAGA	Oy 3781 GAATCTAGGTCAACGTGAAATCTAGGTCACAGGGGGAAAAATGACTGAACGCCTCTATT:	Qy 3841 CCAGGTGAACGGTCACGTGCTCAGATATACTGAGGTATTGGGCTCCCACCGGATAAGAT 3	Oy 3901 TCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGCGGTGACGACGAACATCCAG 3	QY 3961 AAGAATGTCAGAAGGCTGAAGGACAGTGAAAAAGGTACTATTGGCAAGCCACAATACT 4	Qy	Oy 4081 TAACATTTAATTGACTTGTCTACTACTGGTCCATTACTGGCTTAGCTGCACCTGTATC (Oy 4141 TAGCTGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTAAGTCACAATTCTGGAGCT 4 141 TAGCTGGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTAAGTCACAATTCTGGAGCT 4 141 TAGCTGGGGTCTATCAATCTGTGTGTCTAAATTTGTAAGTCACAATTCTGGAGCT 4 141 TAGCTGGGGTCTATCAATCTGTGTGTCTAAATTTGTAAGTCACAATTCTGGAGCT 4 14 1 TAGCTGGGGTCTATCAATCTGTGTCTTAAATTTGTAAATTCTGGAGCT 6 14 1 14 14 14 14 14 14 14 14 14 14 14 1	Oy 4201 AGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCGAGGATGGCTTGTGACAG (111111111111111111111111111111111111	Oy 4261 AGTCAATGCTAGAACAGCATCCCTGATTCCCAGCTCTGCACTTGCCTAGTGGCCATGT 4	OY 4321 GTAATTACTTTGGCTTGATTAAGTATTTGGGAAAGCCAGTTCCCACGGACCTACATAATC 43:	Oy 4381 TGAAGAACCATGCATTGAAAACTAGAAAGCTGGGCACAAACTTACTACAGAGATGATTTTG 4	QY 4441 AGCTCATTAAACGGATGCTCTGAAATGTGGCAAAATCAACCCAGAATAACAACAAAAGAG 4	Oy 4501 CTGGATTTGCAAATAGGACAAGTATTTAGAATCACTGGTATTAATAGCTATCATCTTAAT 4	Oy 4561 TAAAATATAGGGCCTATATATATTTAAGATTAAACACAAGAGTGGATAGCCTCCCAAT 4
20 1	TATACTGAATTTTATCTACAGAGGGGCATTTAGAAAGGCCACCCCACGACTGCAATACTTTC 252 CATTTCTCTGTGCTCTCTTCTGAACTCATACTCTTGGCTACTCCTGAGACCCACTGG 258	CATITETETETGTGETETETETGAACTCATACTETETGGGTACTCCTGAGACCCACTGCG 25 GACATACATCTCTACTTACAGGGTTTTCTTCCATCTCTTGTCACCCAGGCACTTAGGGT 26	2581 GACATACATCTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGGCACTTAGGGT 2840 2641 TTTCTCTTTTCAGGCCAGCCTTGCAGATAACAACACAGACGCTGGCGCTCATCGGGGAGA 2700 2641 TTTCTTCTTTTTCAGGCCAGCCTTGCAGATAACAACACAGACGCTGCTCATCGGGGAGA 2700 2641 TTTCTTCTTTTTCAGGCCAGCCTTGCAGAAACAACACACAACACACCATCATAACAAAAAAAA	AACTGTTCCGAGGGGGGCGGCCTCGCGGATAACAAAAAGGGGCCGGCTCCGGGGGGGG	THE THE TENERAL THE TRANSPORT OF THE	CTAAAGATCAGTGCTACCTGATGAGCTGCTCAAACTTCACCCTGGAAGAGCTTCTGC 288 [HIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	TCCCCCCAGAGAGAGATTCCAGCCCTACATGAGAGAGAGA	ICCCCCCASICAGACAGGIICCAGCCCIACAGGAGGIGGIACCIIITCCIGAACAGGIICAGAACAGAGAGGIAGGIACCIITCCIGAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	CCTCTTTCTATTCCACGTCCCACGCCCCCCCCCCCCCCC	GGGCCTCAGCACCACCACCACCACCACTGAAATAGGTCACAAAAGGTTTGGCTTC 3	AATTGAGTAATACTTTGAGTTTTGTAGGGTGGAAGCTTTATTGTTTTATCCTGGGAAAGA	AATCAACTCAAATTCTGTAGGATGAAAGATGGAACGTTAATTAA	GAAACAGATCTGCTGAGATATAGTACTTATGGGGGGGGGG	CAAGTACTTGTGGGGGAGAAATCCACTGAGTACAAGTACTTGTTGGCATGGAGATCCAC 33	CAAGTACTIGTGGGGGGAGAGAATCCACTGAGTACAAGTACTIGTTGGCATGGGAGATCCAC 358 TGAGTACAAGTACTTGTGGGGGGGGAATGGCACAGAGCAAAAGTTGAAAGGGAAGGAA	TGAGTALAAGTACTTGTGGGGGGGGAATGGCCACAGAGCAAAAGTTGAAGGGGAAGGAA	3421 AIGGAGAGGCCTCAIGGITGGGGGAAAGGICACTCTTTCCAIGIGAGGGAGGGGT 3480 3481 TAAGAAAAACCAGTGTGAGATTGATGTTCATGACACCCCCAACTATGAAACATATCC 3540 3481 TAAGAAAAACCAGTGTGAGAGTTTGATGTTCATGACACCCCCCAACTATGAAACTATGC 3540 3481 TAAGAAAAACAGAGGGGGGGGGGGGGGGGGGGGGGGGGG

8 4 8 4

8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6

Query Match Best Local Similarity 100.0%; Pred. No. 0; Matches 7445; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	OY 1 GICTATCACCTGCATAAGATTCTTCTAATTTATAAAAAAAACTATTTCTTAAAATGAAAA 60 	Qy 61 GCAACCAGAGCACGTATTTATAGCATGGTGTTCTGACCATGCAGGTACAGAGTGGAATGG 120	OY 121 TAAGAGGCGCTATTATCAGCATTAACCAACATGTTAATGTTTTCTTCTGGCAAGCAA	Qy 181 TGAAATCTATAAACAATCTTCAAGCCTCTAATATAGTGCTAACGACTGGAGTCCG 240		301 TGGACTCCCCAACCTCTGGCTTCGGCTCCTGATGGCCACCTTTCAACTTTGGCTTTAACTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTGGGTTTTAACTTTTAACTTTTGGGTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTTTAACTTAACTAACAAC	Oy 361 TGAACTCCANGTTTTAATCTTTTATTAAATTTCACAATCAGTGTTTGGAAGTC 420	Qy 421 TGTTTCACCACATGTATGTCTGCACCAAGTGCTGCCTGGTGCTTGTGGGGGCAAGGA 480	OY 481 GCAGGAGAGGCCCTGGCACCGGAGTCACGGATGGTTGTGAGCCACCATGAGGATGCT 540	OY 541 GGGAGTTAGACCCAGGACTCCTCCAGAAGTGCAGCAAATGCTCTAACCACGCAGGCATT 600 Db 541 GGGAGTTAGACCCAGGACTCCTCCAGAAGTGCAGCAAATGCTCTTAACCACACGAGGAGTT 600	OY 601 TCTCTCCAGCCCCAACATGAGTGCTTTTAGATTCCACCTAGAATAGAGATCTGATGGC 660	OY 661 TTCACTCACTGCCACCTCCCTTTGCATCTTTCTGCCAAGGAACCCCAAAAGCAAGAAT 720	OY 721 CCCCACACTGCTTTCGCTCCTCAAGTCTGCACCTCTCAACAGGTCAAGATTCTCCAGTGT 780	OY 781 CCCTCTAACACTTTCCCCAGTGTCCCTCTAACACTTTCTCCAGTGTCCCTCTAACACTTT 840	OY 841 CTCCAGTGTCCCTCTAACACTTTTGATCTCAATTAGCTGAGGGGAGAAAGATCTCACACA 900	OY 901 GTGATTTTCATGACTTCGCGTTCTAGATGTAGGCATTGCGTGTCGGTCTCAGGGT 960	Oy 961 AGGCGTCTGCTCCGCTGCTTAGGAAAGACTTTCCTAGTCTAGTTGTCAGGTGCTATCTG 1020	1021 GGATTCAGTGTACATACAATGCAAAAAATCCCAGTATTTGTAAATTCTTCTTCTTCAACT 1
0069	0969	7020	7080	7140	7200	7260	7320	7380	7440				Inducible Fac					
6841 TATTGTCACTGATGATACAACAGAAAATAATGTACTTTAAAAAATTGTTTGAAAGGAGG 69	TACCTCTCATTCCTTTAGAAAAACCTTATGTAACTTCATTCTTTCCATATCTTTTTTTT	ATAINIGIAAGITTATITATTATAAGIATACATITTATITATITATAATAGG	ATTATTATAGAAACATTATCIGCTATTGATATTAGTATAAGGCAAATAATATTATG	1081 ACAATAACTAFGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCATAAATCT	TCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCATCATC	ATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAAGTTGGTTCCTGGAGGC	1261 CTGTGGTTTTTGTGTGTGTGTGTGTGTGGGGTTATGCATGTGAAAGCCAGAGATGG	ATATTAGGIGTTCTTCTCTATCAGTCTTTGCCTTATTTATTTGACACAGGGTCTGTCACTG	AACCTGTAGCTAGGCTGGCCAACAAGTCTATTAATTTTTTTAAGATTAATTA	TGTAT 7445		US-10-627-273-8 ; Sequence 8, Application US/10627273 ; Sublication No. US20040110189A1 ; GENERAL INFORMATION:	Cell	ILIE OF INVENIOUS: (11.8) THE FIOCETIN ENCOGED, AND USES INSTECTED FILE REFERENCE: LUD 5543.2 CURRENT APPLICATION NUMBER: US/10/627,273 CURRENT FILING DATE: 2003-07-25	R APLICATION NUMBER: US/09/751,79/ R FILING DATE: 2000-12-29 R APPLICATION NUMBER: 09/419,568 R FILING DATE: 1999-10-18		LENGTH: 7445 TYPE: DNA ORGANISM: Mus musculus	, Feduca: US-10-627-273-8
ठे ह	3 8 8	3 6 8	8 & 8	k d	& 8	<u>ک</u> ۾	è d	රු සි	े ह	3 6 6	RESULT	Segrinary Segrin	API			SEO SEO		US-10

1101 AGTITITICCTIANGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
品 公 品 公 品 公 品 公 品 公 品 公 品 公 品 公 品 公 品 公
101

GENATTRACTITIOCCTTCALANACTRACTANTICOCADAGCCAGATCCCACGACCTCACATANT TGAAGAACCATCACTTCACATCACAAACTGCGGAACCACTCCCACCACCTCCCACCACATTTTTC TGAAGAACCATCACATCA	5281 ACTITITITICCCCTTAAATGCCTATAATCCACTTTCAGTCAACTTTGACTTTTTATACC 5340 5341 ATGCTGTCACATGAAAGAGTGTTTAGGCCCGCTCCTCATGCCTCTGGGAAAAGCACCAATA 5400 5341 ATGCTGTCACATGAAAGAGTTTTAGGCCCGCTCTCATGGCTCTGGGAAAAGCACCAATA 5400 5401 GGGGAAGGAATGTTATGCTGAAAAATCTGACCGGGAAAAGCTGCTCAAGAACCCCGT 5401 GGGGAAGGAATGTTATGCTGAAAATCTGACCGGCAGGGAAACTGGTCAAGACTCCCCG 5460
6	6 6 6 6 6 6 6
33 33 00 33 34 20 34 20 34 20 34 20 35 40 36 60 36 60 37 20 37 20 38 40 39 60 40 20 40 20 40 20 40 20 40 20 40 20 40 20 40 20 40 20 40 20	4260 4320 4320
Garge Control Contro	AGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCGGAGGATGGCTTGTGACAG AGTCAATGCTAGAAAGCAGCATCCCTGATTCCCAGCTCTGCACTTGCCTAGTGGCCATGT AGTCAATGCTAGAAGACAGCATCCCTGATTCCCAGCTCTGCACTTGCCTAGTGGCCATGT AGTCAATGCTAGAAGACAGCATCCCTGATTCCCAGCTCTGCCACTTGCCTAGTGGCCATGT

6511 TIGGAGAGATTAGAAANTGCTACCTGATCACAATTGGTTTATTTTTATTACTACTGGGAAATTGGTTTATTTTTTTT	RESULT 3 US-09-751-797-29 Sequence 29, Application US/09751797 Patent No. US20010024652A1 GENERAL INFORMATION: APPLICANT: Dumoutier, Laure
	6421 AGAAGGCTGATACTTGGTTTTGGTGCAGCAAATGTCACCAGCTCTTTCTAACTG 6480

12 STCGGGGAGAAACTGTTCCGAGGAGTCAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG 1 1 1 1 1 1 1 1 1	2991 CCTCTCTCTTCTTTCTATTCCAGTAACACCCGAGGTCCTGCCTCTCTCT	CCTAGNIA	3463 TTCCATCATGATGAGGATAAGAAAACCAGTGTGAGTTTATGATGTCTTCAGACACCC 3522 1758 TTCCATGATGAGGAGAAAAATCAGTGTGTGAGTTTGATGTCTTCAGACACCCC 1817 3523 CACTATGAACATAAGAAAAATCAGTGTGTGAGGACCTGAGCACTCTCAGACACCCC 1817 1818 AA
8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8	8 6 8 6 8 6 8	6 6 6 6 6 6 6 6 6 6
APPLICANT: Louhed, Jamila APPLICANT: Louhed, Jamila APPLICANT: Renauld, Jamila TITLE OF INVENTION: Gaar-Christophe TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof FILE REFERENCE: LUD 5543.2 CURRENT APPLICATION NUMBER: US/09/751,797 CURRENT FILING DATE: 2000-12-29 PRIOR APPLICATION NUMBER: 09/419,568 PRIOR PILING DATE: 1998-10-26 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 LENGTH: 5935 TYPE: DNA ORGANISM: Homo sapiens FEATURE: US-09-751-797-29	Query Match 57.0%; Score 4245.2; DB 3; Length 5935; Best Local Similarity 88.3%; Pred. No. 0; 1971 Indels 487; Gaps 1971 TACCATGCTACCCGACGAACATGCTCCCCTGATGTTTTTGCTTTTGCTCTCTCACTAAC 293 TACCATGCTATCCGACGACGATGTTCCCTGATGTTTTTTGCTTTTTGCTCTCTCGCTAAC 2031 AGGCTCTCCTCTCACTTATCAACTGTTGACACTTTTTTTT	0.0 0.151 0.174 0.044	AGGACTGGGTCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT AGGACTGGATCTTTTTTTTTT

Control Cont
--

us-09-751-797-8.rnpbm

q		5332 CTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA 539
ò	5964 5963	6706 AAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGA 67
qu	4313 GCAGAGGCAGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGA 4372	5392 AAGTGAGAAAGCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGA 545
ò	5964 5963	6766 AAAAAAAAATACTGTCAGTTGTCCAGGCCCAGAGGTAGACTTGATAACCACAAAGAT 6
qa	4373 CAGCCAGGGCTATACAGAGAAACCCTGTCTCGGGAAAAAAAA	5452 AAGAGAAATAGTGTCAAGTTGTCCATGAGACCCAGAGGTAGACTTGATAACCACAAGAT 551
ò	5964 5963	Cy 0020 LCATICACCATATTITATICACCATCATCATCATCATCATCATCATCATCATCATCATC
q a	4433 ANAAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	5512 ICHIIGACAATAITITATIGICATIGALAAGAAAAAAGAAAAAGAAAAAGAAAAA 557
ò	5964 5963	6886 ITGILISARAGGAGGILACICICCITIAGAAAAAAAAAAGGILAIICAIIIC
qq	4493 GAGAGAGAGAGAGAGAAGAAGAAGAGAAGAGAAGAGA	55/2 ITGITIGAAAGGAGGITACCICICICIAGAAAGAAAGCCIAIGIAACITIC 563
&	5964 5963	CAIAICCAAIATTTATATATATGTAAGTTATTATTATAAAGTACATTTTATTATTATTATTATTTAT
ΟD	4553 GAGAAGAGAAGAAGAAGAAGAAGAAGAAGAGAAGAG	5632 CAIRACCAAIRCITTAIRIGIAAGITTAITIAITAIRAAGIAIACAITTAITIAIGIC
ð i	GGCAAAGCCCGACCATGGGT	Db 5692 AGITTATTATATATATAGAATTATTATAGAAAATTATATATA
සු .	AAGAGAAAAGAAAAGAAAAGCAAGCAAGCAAGCACTGGCAAAGCATGCCCACATGGGA	Qy 7065 GCAAATAATATTAAGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACA 7124
& a	5986 TGAATGTGGGTCTTTGAGTCAAGGCTTTTGAGTGGACTCATCAATAATTGATCATCGG 6045	Db 5752 GCAAATAATTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACA 5811
ò	TCAGGTGGAGGGCTACCTGTCAGGCCGAGCCCTGCTGGCTTCGCACTTAACATCTCCAGG	Qy 7125 TGGATATCATAAATCTTCTGTATTTTTCTCCCTTTAATATCAATACCATCA 7184
q	4733 TCAGGTGGAGGCTACCTGTCAGGCCGAGCCCTGGTGGCTTAGCACTTAACATCTCCCAGG 4792	Db 5812 TGAATATCATAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCA 5871
ò	TCTCAGTATCACTTCCTGCTACTTAGCACAGTTAGGAGTTGAGCAAACCTTTTTTTCCAA	Qy 7185 TCATCATTACCCAATCATTCTCATGATTTCATGACCCATATTATACTGTTAAA 7244
q		Qy 7245 GITG 7248
કે દ	6166 CCCCCACTAAAATTTAATTGACAAAAGACTGTGTAATTTGTGGGATACAGTGTGATAATT 6225 	 5932 TTTG
}	中部 かいかい かんかい かいかい かいかい かいかい かいかい かいかい かいか	и шлаа
à d	GATCTATGTGCGATGTGCGAGGTTCAATAGATCAATAGGCCCATCAACACTT	KES-011 4 US-10-627-273-29 ; Sequence 29, Application US/10627273
ò 8	6286 TATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGTGGTGTCCTTAGGTCAGAAGG 6345	
8 8	CATGATITIAAGGTCTTGGGCAAATCATATATACTCATGCTAAAAATACATTATGA	; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac.
; a	CATGATTTTAAGGTCTTGGGCAAATCATATTATACTCATGTTAAAATGCATTATGTTGA	; TITLE OF INVENTION: (TIFE) The Proteins Encoded, and Uses Thereof ; FILE REFERENCE: LUD 5543.2
ò í	THATTAATCTITTAGAGAAGGCTGATACTTGGTTTTGGTGCTCAGCAAGCA	CURRENT FILING DATE: 2003-07-25 FROM PELLON NUMBER: US/09/751,797
q n	TIATCAATCTTTTAGAGAGGGGGATACTTGGTTTTGGTGCCAGCAAGCA	; PRIOR FILING DATE: 2000-12-29 ; PRIOR APPLICATION NUMBER: 09/419,568
රු සි	6466 AGCTCTTTCTAACTGGTACCACTTTAGAAATGCTACCTGTGCTCAAATTGGTTTGTATT 6525	; PRIOR FILING DATE: 1999-10-18 ; PRIOR APPLICATION NUMBER: US09/178,973 ; PRIOR FILING DATE: 1998-10-26
۶۵ اور	6526 CTTATTTCATAGCTTGGAGAGAGTGGAGAGATCAAGGGGATTGGGGAACTTGGGGAACTGGACCTGCT 6585 [c)
ò	GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGAAGAAAAAAAGAAGAACTG) ORGANISM: Homo sapiens ; PEATURE: i; PEATURE: ii: A
ΩÞ	5272 GTTTATGTCTCTGAGAATGCTTGCGTCTGAGCGAGAAGAAGTAGAAAACGAAGAACTG 5331	Ouery Match 57.0%;
ò	6646 CTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA 6705	Local Similarity 88.3%; Pred. No. 0; es 5039; Conservative 0; Mismatches 178; Indels 487

us-09-751-797-8.rnpbm

3051 1372 3111 1432 3171 1492 3231 1552 3287 1612 3347		3 1 3		3823 T 2096 T 3883 G 2156 G	0 3943 GACGACCAGAAGATCTCAGAAGGCTGAAGGAACAGGAAAAAGGTACTA
1971 TACCATGCTACCGGACGACGACCTGATGTTTTTGCCTTTTGCTCTCTCACTAAC 2030 293 TACCATGCTACCGGACGACGACGATGTTCCCCTGATGTTTTTGCCTTTTGCTCTCTCACTAAC 352 2031 AGGCTCTCCTCTCACTTATCAACTGTTGACACTTTTGCCTTTTGCTCTCTCT	2 4 2 4	TCAGGACACATATACTGAATTTTATCTACAGAGGGCGCATTTAGAAAGCCACCACGACTG 251	2571 ACCACTGCGGACATACATCTTACTTACTTTCTTCCATCTCCTTGTCACCCGGG 2630 [1	Arcasadalanderistrecasadarcaeratadarechercaeraraandadeadageeraa 10 cracagaageragaaceeregaraagrecaaagaaceeraeraeraerae 28	1132 TACCTGCAGGCTAAGGATCAGTGCTGATGAAGCAGGTGCTCAACTTCACCTGGAAA 1191 2871 GACGTTCTGCTCCCCCAGTCAACGTTCCAGCCTACATGCAGAGGTGGTACCTTTC 2930 1192 GACATCTGCTCCCCCAGTCAGACAGGTTCCAGCCTACATGCAGAGGTGGTGCTTTC 2930 2931 CTGACCAAACTCAGCTAGCTCAGCTCCTGTGTAAGTCTAGACTCTGGCTATCTTTC 1251 1252 CTGACCAAACTCAGCAATCAGCTCAGCTCCTGTGTAAGACTCTGGCTACCTATGCT 2990 1254 CTGACCAAACTCAGCAATCAGCTCCAGTAAGAACCCGAGGTCTGGCTTCTTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCTCTCTCT

1.16	4461 TGAAATGTGGCAAAATCAACCCAGAATAACAACAAAAGAGCTGGATTTGCAAATAGGACA 4520
8 4 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ò
ATCTTTAGGACTGGGCTTTTTCTATTTCTATTTCTAGGGCCTCAGGACCATTCCTACCAT CCTGCCCCCCAGGACTGGGCTTTTTTTTTT	1370 CATGGAGAGAATTAGAAGAGAAAGTGGGAAATGGGAAGGCTTAAA 1415

us-09-751-797-8.rnpbm

S522 AGCAGAACGCAGGTTGGTAAAAT-GCATGACAGACAGTAGGGGACGATAAACTTTAA S580 S546 AGTTTCATAGGGTC-CGGAGTCTTAAAGATACAAATAGCTGCTTGGGCTTCATAACA S602 S603 AGGAGTCTTGGAGTCTTTGAGATACAAAAGCAACAAAACAGAAAAACAGAAAACAGAAAACAGAAAAACAGAAAAACAGAAAAACAAAAGAAAGAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAA	CTTGACAAAAAAAAAAAAGGGAAAATGGTTTGTTTGTTTTGTTTAAGAAAGCAC	TCCTGCTACTTAGCACACTTAGGAAACCTTTTTTCC TAAGAAAGTTTATGATTAGATTCTGTTAGGCAAACCTTTTTTTCC TAAGAAAGTTTATGATTTCTGTTAGGCAGCATCAAGCTGTCCTGGGCCATGTGTATTTG	4569 CAÀTTICTAÀTTIGTTCACTTTAGÀAÀACATGGCATAAATGCTCAÀATACTTTTGCÀ 4625
8 6 8 6 8 6 8 6 8 6 8 8 8	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	ΩP
		Grectingceafticities	=

B & B & B &

OY 2443 CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCATTTAGAAAGCCA	629 2655 689 2715 2715 2716 2918 809 2918 1049 3058 1109 3118 1122 3298 1122 3298 1310 33298 1310 33298 1310
	FIGURE 6. TOTAL-25 Sequence 25. Application US/10627273 APPLICANT: Doubed, Januaria APPLICANT: Remaild, Jean-Chistophe THILE OF INVENTION: Inclated Nucleic Acid Molecules which Encode T Cell Inducible. THILE OF INVENTION: INTER THE PROCESS. US/10/677,273 CURRENT APPLICATION NUMBER: US/09/731,797 SEXURE REPRENCE: LUG 2003-07-25 SEXURE APPLICATION NUMBER: US/09/731,797 SEXURE APPLICATION US/09/731,797 SEXURE AP

8 6 8 6 8 6 8 6 6 6 6 6 6

1517 ANTICTICAL
B
1461 MCCACAMANTCOSACCACTAMANCCACACACACACACACACACACACACACACACACAC

4797

6643

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Loubed, Jamila
APPLICANT: Loubed, Jamila
APPLICANT: Loubed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: [IF8] The Proteins Encoded, and Uses Thereof
FILE REPRENCE: LUD 5543.2
CURRENT FILING DATE: 2000-12-29
FRIOR APPLICATION NUMBER: 09/419,568
PRIOR APPLICATION NUMBER: 09/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6715 GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      630 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               750 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                930 TATTITATATATATGTAAGTITTATTATATAAGTATAACATTITATTATGTCAGTTTATTA
 CTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGGAAAAACGAAGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 510 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5835 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                810 ATATITIATIGICACTGATAGATACAGAAAAATAATGTACTITAAAAAATTGTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TATITITATATATGTAAGTTTATTATATAAGTATACATTTTATTATGTCAGTTTATTA
                                                       6644 IGCICCITCCIGCCTICIAAAAAGAACAAIAAGAICCCIGAAIGGACITITI
                                                                         Length 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 601.4; DB 3;
Pred. No. 8.4e-126;
0; Mismatches 1;
                                                                                                                                                       ; Sequence 7, Application US/09751797; Patent No. US20010024652A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 99.8%;
Matches 602; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 1119
                                                                                                                              RESULT 7
US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     , 5/19
6584
                            4686
                                                                                  4746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7015
                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURE
                     g
                                                      8
                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
 ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4460
                                                                                                                                                                                                                  3861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            440I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4685
                                                                                                CCTTAATGTAATGGTGAATACATGGTTCAAAGTCATTTGAGTAGAGAGATGTTTTAAATCAG 4041
                                                                                                                                                                                                                                                                                                                                                                                                                       ---GATCATGGTCAGGTGGAGGGC 6058
                                                                                                                                                                                                                                              5902
                                                                                                                                                                                                                                                                                                                               Trcccacaaaagrgaaactrrrcrrrracrgrrrgrcaaaaaggrcaaaragaaaag 3981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ----TGAAAGGGCGGAAGAAGCAGGAAAAGGAAG
                                                                                                                                                CGATTAAGTTTGGGATCCTCATCTGCATTTGACT----TGGAGAGAAAGAATGAATGT
                                                                                                                                                                                                                                                                TTCATTAGTGTGGGGGGCCCCCGGAAATTGATGCCTGCTGGTGGCCT-CTCAGTCCAGAGA
                                                                     AGGACTTGAACAGCTACAAATCCTCTACCAGACGATTTTTCTTGGAACAATCTAGAAGGT
                                                                                                                                                                                                                                             TATGACTCCTACCTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -------AACCCCCACTAAAATTTAATTGACAAAAGACTGTGTAATTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crgresecrecaserresacaascreciraraasraarcrercarasarasirrresase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rcagiciccriscricastraagaageergercaacrercresceagerriaaakeage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTTATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGTGTCCTTAGGTCAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCAGCTCTTTCTAACTGGTACCACTTTAGAAAATGCTACCTGTGCTCAAATTGGTTTGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAATTICT - - - AATTIGTTCACTTAGAAACATGGCATAAATGCTCAAATACTTTTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTCTTATTTTCATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGGAACTGGACCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAGGAAGTCTGGGAAGGCAGCAAGTGACAGGGAAATGGAAAAGGGAAAAAAACACAATGTAG
                                                                                                                            AGTGGATTAGGTGATTGCAGGGGGACTTGCCTTTGCCATTTGAATCTGGGTTTTTTGTCTCT
                                                                                                                                                                                     CCATTGAGGTTGAAAGCGTCACCCTTTTTACCCTCGAATGGAGGAAAGAAGGGGTGT
                                                                                                                                                                                                                                                                                                                                                             5963 AGGCAAAGCCCGACCACATGGGTTGAATGTGGGTCTTTGAGTCAAGGCTTTTGAGTTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAAGAATTGTCTTGGTACACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TACCTGTCAGGCCGAGCCCTGCTTGGCACTTAACATCTCCAGGTCTCAGTATCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCATGCATAAATCTCTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 riccadadcideccadeccaradareseresescarececeasareceasereceasereser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGCATGATTTTAAGGTCTTGGGCAAATCATATTATACTCATGCTAAAAATACATTATGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAAAGGGATA-----T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ----TCTATGTGCGATTGTGCAAGGTTCAATAAGATAGATTAATAGGCCCCATCAACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCCTGCTACTTAGCACAGTTAGGAGTTGAGCAAACCTTTTTTTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGGATACAGTGTGATAATTGA----
                                        3641 AAAGAAGTATGGAAAGG-----
                                                                                                                                                                                                                                                                                                                                                                                                                       CACTCATCAATAGIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4222
                                                                                                3689
                                                                                                                                                         3749
                                                                                                                                                                                                                3806
                                                                                                                                                                                                                                             5843
                                                                                                                                                                                                                                                                        3862
                                                                                                                                                                                                                                                                                                    5903
                                                                                                                                                                                                                                                                                                                                 3922
                                                                                                                                                                                                                                                                                                                                                                                          3982
                                                                                                                                                                                                                                                                                                                                                                                                                       6023
                                                                                                                                                                                                                                                                                                                                                                                                                                                   4042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6029
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4509
               5603
                                                                                                                           5723
                                                                                                                                                                                    5783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6164
                                                         중 名
                                                                                                                   $ B $ B $ B $
                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                          q
             8 8
                                                                                                                                                                                                                                                                                                                                                            ક
                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      යි සි
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

6654

629

569

6714

6774

689

6834

749

6894

869

809

6954

929

7014

989

7074

1049

ö 6594

Gaps

ö

```
6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6895 AGGAGGITACCICICAIICCITIAGAAAAAAGCITAIGIAACIICAIIICCAIAICCAA 6954
                                                         1050 TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            833 ATATITIATIGICACIGAIGATACAACAGAAAAATAAIGIACITIAAAAATIGITIGAA 892
                                                                                                                                                           6775 TAGTGTCCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6835 ATATTTTATTGTCACTGATACAACAGAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6715 GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6655 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
7015 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAAGGCAAATAATA
             990 ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA
                                            6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8.0%; Score 598.2; DB 5; Length 1166; 99.5%; Pred. No. 4.6e-125; tive 0; Mismatches 3; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity 99.5
Matches 600; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                             7135 AAA 7137
                                                                                                                    AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      653
                                                                                                                    1110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                    셤
                                              8
                                                                요
                                                                                            ઠે
                                                                                                               셤
                                                                                                                        Sequence 7, Application US/10627273
; Sequence 7, Application US/10627273
; Publication No. US20040110189A1
; General Information No. US20040110189A1
; General Information No. US20040110189A1
; APPLICANT: Doubed, Jamila
; APPLICANT: Renauld, Jean-Christophe
; TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
; TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
; TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
; TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
; TITLE OF INVENTION: (VMBER: US/10/627,273
; CURRENT FILING DATE: 2003-07-25
; PRIOR FILING DATE: 1999-10-18
; PRIOR FILING DATE: 1999-10-18
; PRIOR FILING DATE: 1999-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NOS: 29
; SEQ ID NOS: 29
                                                                                                                                                                                                                 Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7014
              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6535 ATAGCTTGCAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC 6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGAGGITACCTCTCATTCCTTTAGAAAAAGGTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGAGGITACCICTCATICCITIAGAAAAAAGCITATGIAAACTICATITCCATAICCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAITITATATATATGITATTIATTATAAAGTATACATTITATTTATGICAGTITATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 601.4; DB 7;
Pred. No. 8.4e-126;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                           8.1%;
99.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.8
Matches 602; Conservative
                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Mus musculus
                                                            AAA 7137
                                                                                     AAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6715
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             930
                                                             7135
                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                  셤
                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                 à
                                                                               8
```

6894

6954

6834

```
Sequence 3, Application US/10873972

Sequence 3, Application US/10873972

Publication No. US20050042220A1

GENERAL INFORMATION:

APPLICANT: Li, Jing

APPLICANT: Tan, Xiang-Yang

APPLICANT: Tomkinson, Kathleen N.

APPLICANT: Pittman, Debra D.

APPLICANT: Pittman, Geertruida M.

APPLICANT: Pittman, Geertruida M.

APPLICANT: Pittman, Geertruida M.

APPLICANT: Pittman, Debra D.

PRIOR REFERRENCE: AMIO1524

CURRENT APPLICATION NUMBER: US/10/873,972

CURRENT APPLICATION NUMBER: US 60/480,652

PRIOR PILING DATE: 2003-06-23

PRIOR PILING DATE: 2002-02-25

PRIOR PILING DATE: 2001-06-23

PRIOR PILING DATE: 2001-02-23

PRIOR PILING DATE: 2010-02-23

PRIOR PILING DATE: 2010-04-03

PRIOR PILING DATE: 2010-04-03

PRIOR PILING DATE: 2010-04-03

NUMBER OF SEQ ID NOS: 10

SOFTWARE: Patentin version 3.1

SEQ ID NO 3

LENGTH. 1166
                                                                                                                                                                                                                                                                                                              953 TATITITATATATGTAAGTITIATITATTATAAGTATACATITITATGTCAGTITATTA 1012
                                                                                                                                                                                                                                                                                                                                                                                                  1073 TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 1132
                                                                                                                                                                                                                                                                                                                                                                       7015 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                                                                                                                              7075 TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134
                                                                                                                                                                                                                                 893 AGGAGGITACCICCICATICCITIAGAAAAAAGCTTATGIAACTICATITCCATAACCAA 952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                                                                                      833 ATATTITATIGICACIGAIGATACAACAGAAAAATAATGIACITIAAAAAATIGITIGAA 892
    5775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                        8835 ATATTITATICTCACTGATGATACAGAAAAATAATCTACTTTAAAAATTGTTTGAA
                                           773 TAGTETCAAGTTETECATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         533 AAAGCTTGGAGAGAGAGAGACAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6595 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 8.0%; Score 598.2; DB 8; Best Local Similarity 99.5%; Pred. No. 4.6e-125; Matches 600; Conservative 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1133 AAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7135 AAA 7137
                                                                                                                                                                                        6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         쇰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                             ઠ
                                                                                                                               а
                                                                                                                                                                                      ò
                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                  원
                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                                                  ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 1072
                                                                                                                                                                                                                                                           TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134
                                                                                                                                                                                                                                                                                   1073 TITAIGACAATAACTAIGGAAACAAGATAICTTAGGCTITAATAAACACAIGGATAICAI 1132
                                                                                                                                                                ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        652
653 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    113 GCTAACGTCCATCATTATAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAAAA 772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Dittman, Debra
APPLICANT: Dittman, Debra
APPLICANT: Pittman, Debra
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Kuan, Dejun
TITLE OF INVENTION: Composition and Method for Treating Inflammatory
TITLE OF INVENTION: Disorders
FILE REFERENCE: GI5358 CIP
CURRENT FILING DATE: 2002-09-10
PRIOR APPLICATION NUMBER: US/10/084,298
PRIOR APPLICATION NUMBER: 05/270,823
PRIOR APPLICATION NUMBER: 60/270,823
PRIOR PILING DATE: 2001-02-23
PRIOR PILING DATE: 2001-04-03
PRIOR PILING DATE: 2001-04-03
PRIOR PILING DATE: 2001-04-03
PRIOR PILING DATE: 2001-04-03
PRIOR APPLICATION NUMBER: 60/21,31,473
PRIOR APPLICATION NUMBER: 09/561,811
PRIOR APPLICATION NUMBER: 09/561,811
PRIOR PILING DATE: 2000-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTAACGTCCATCATCATAGAAGATTTCACATGÀAACCTGGCTCAGTTGAAAAAGAAA
                                                                       TATTTTATATATGTAAGTTTATTATATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAAGCTTGGAGAGAGTGGAGAGTCAAGGGGATTGGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6535 ATAGCTTGGAGAGAGAGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5595 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 6; Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 8.0%; Score 598.2; DB 6; Best Local Similarity 99.5%; Pred. No. 4.6e-125; Matches 600; Conservative 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 3, Application US/10256977; Publication No. US20030157106A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: Patentin Ver. 2.1 SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                  AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                  AAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Murine
                                                                                                                                                              7015
                                                                                                                                                                                                           1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6655
                                                                       6955
                                                                                                                                                                                                                                                         7075
                                                                                                                                                                                                                                                                                                                                                    7135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6715
                            893
                                                                                                                   953
                                                                                                       8 8
                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                       ઠે
                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
```

6594

592

ö

6654

```
7014
                                                                                                                                                                                                                                                                                                                                                                                                                                       1073 TTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 1132
                                                          6654
                                                                                                                  6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                                                                                                                             6774
                                                                                                                                                                                                                                        5775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 6834
                                                                                                                                                                                                                                                                                                   6894
                                                                                                                                                                                                                                                                                                                                                             6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134
                                                                                                                                      653 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA 712
                                                                                                                                                                                                                                                                                                                               892
                                                                                                                                                                                                                                                                                                                                                                                        893 AGGAGGITACCITCTATTCCTTTAGAAAAAAAAGCTTATGTAACTTCATTTCCATAACCAA 952
                                                                                                                                                                                                                                                                                                   8835 ATATITIATICICACIGAIBATACAACAGAAAAATAATGIACTITAAAAAATIGITIGAA
                                                                                                                                                                                                                                                                                                                      533 AAAGCTTGGAGAGAGAGAGAGAGATTCAAGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                              AGGAGGTTACCTCTCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAA
 5535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                            TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCTT
                                                                          GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                      TATTTTATATATATGTAAGTTTTATTATAAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 555.2; DB 3;
Pred. No. 2.8e-115;
0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7135 AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7015
                                                              5595
                                                                                                                                                                                6715
                                                                                                                                                                                                            713
                                                                                                                                                                                                                                                                                                                                                              6895
                                                                                                                                                                                                                                                                                                                                                                                                                         6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                       셤
                                                            ઠે
                                                                                  음
                                                                                                               ò
                                                                                                                                             g
                                                                                                                                                                                ð
                                                                                                                                                                                                      g
                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                        TATITIATATATGTAAGTITATTATTATAAGTATACATTITATTTATGTCAGTTTATTA 1012
                                                                                                                                                                                                                                                                                                                                                                                                                                       1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                 GCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAAAA 6774
                                                                                                                                                                                                                                                                                                                                                7015 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                         TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAGATTCATTGACA 6834
                                                                                                                                                                  AIATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTGAA 6894
                                                                                                                                                                                   GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 772
                                                                                                                                   773 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 3, Application US/11157387

Sequence 3, Application US/11157387

Publication No. US20050238648A1

GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: Pittemn, Debra
APPLICANT: Pottemn, Debra
APPLICANT: Spaulding, Vikki
APPLICANT: Couser, Lynette
APPLICANT: Couser, Lynette
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Number: Dejun
ITLE OF INVENTION: Disorders
FILE REFERENCE: G15358 CIP
CURRENT APPLICATION NUMBER: US/11/157,387

CURRENT FILING DATE: 2002-09-10

PRIOR FILING DATE: 2001-04-03-3

PRIOR PELICATION NUMBER: 60/270,823

PRIOR PELICATION NUMBER: 60/213,353

PRIOR PELICATION NUMBER: 60/213,473

PRIOR FILING DATE: 2001-04-03

PRIOR FILING DATE: 2001-04-03

PRIOR FILING DATE: 2001-04-03

PRIOR FILING DATE: 2001-04-28

PRIOR FILING DATE: 2001-04-28

PRIOR PELICATION NUMBER: 09/561,811

PRIOR PELICATION NUMBER: 09/561,811

PRIOR PELICATION NUMBER: 2001-04-28

NUMBER OF SEQ ID NOS: 10

SOFTWARE: PatentIn Ver: 2:1

SEQ ID NO 3

LENGTH: 1166
GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                       TATTTTATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                          TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT
                                                                                                                                                                                                                             AGGAGGTTACCTCTCATTCCTTTAGAAAAAAAGCTTATGTAACTTCCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 8.0%; Score 598.2; DB 10; Best Local Similarity 99.5%; Pred. No. 4.6e-125; Matches 600; Conservative 0; Mismatches 3; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Murine US-11-157-387-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                            1013
                                                                                                                                                                                                                                                                                                                                                                                                          7075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7135
                                                6715
                                                                            713
                                                                                                         6775
                                                                                                                                                                    6835
                                                                                                                                                                                                                             6895
                                                                                                                                                                                                                                                                                        6955
                                                                                                                                                                                                                                                                                                                    953
                                                                                                                                                                                                                                                                                                                                                                                                                                       1073
                  653
                                                                                                                                                                                     요 요
                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                     8 & 8
                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                              ò
```

567

ä

6654

627

6714

6774

687

```
988 ATATGGATTTATTAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1048 ATTTATGATAATTAAGAAACAAGATATCTTAGGCTTTAATAACACATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                    748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6895 AGGAGGTTACCTCTCTTTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAA 6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 628 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                  5775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                      6835 ATATTTTATTGTCACTGATGATACAACAGAAAATAATGTTTAAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              868 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                      508 AAAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                           5655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                             ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7074 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCA
                                   Gaps
                                   1;
   Length 1111;
                                                                      6535 ATAGCTTGGAGAGAGTGGAGATCAAGGCGATTGGGGAACTGGACCT
                                   Indels
     DB 7;
Score 555.2; DB 7;
Pred. No. 2.8e-115;
0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-00-365-40

Sequence 40, Application US/10090365

Publication No. US2030077706A1

GENERAL INFORMATION:
APPLICANT: Preencell, Scott R.
APPLICANT: Kindavogel, Wayne
APPLICANT: Chen, Zhi
TITLE OF INVENTION: Mouse Cytokine Receptor
FILE REFERENCE: 01-08
CURRENT APPLICATION WUMBER: US/10/090,365
CURRENT FILING DATE: 2002-03-04
PRIOR APPLICATION NUMBER: US 60/273,035
PRIOR APPLICATION NUMBER: US 60/273,035
PRIOR APPLICATION NUMBER: US 60/273,035
PRIOR PILING DATE: 2001-03-02

PRIOR FILING DATE: 2001-03-07

NUMBER OF SEQ ID NOS: 49

SOFTWARE PRESENCE FOR WINDOWS VERSION 3.0

SEQ ID NO 40

LENGTH: 1050
 Query Match
Best Local Similarity 96.0%;
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Mus musculus FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7134 TAAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1108 TAAA 1111
                                                                                                                                        6595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7015
                                                                      8
                                                                                                                                        ò
                                                                                                                                                                       셤
                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                               쉽
                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Remaild, Jamila
APPLICANT: Remaild, Jamila
TITLE OF INVENTION: ISOJATICA Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543.2
CURRENT PAPLICATION NUMBER: US/10/627,273
CURRENT FILING DATE: 2003-07-25
PRIOR APPLICATION NUMBER: US/99/751,797
PRIOR APPLICATION NUMBER: US/9419,568
PRIOR APPLICATION NUMBER: US/9419,568
PRIOR PILING DATE: 1999-10-18
PRIOR PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7014
                                                                                                                                                                                                                             6774
                                                                                                                                                                                                                                                                                                                                                                                                                                        6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                  6835 ATATTTTATTGTCACTGATGATACAACAGAAAATAATGTACTTTAAAAAATTGTTTGAA 6894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             987
                                                                                                                                                                                                                                                                                                                                  807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        927
                                                                                                                      627
                                                                                                                                                                            GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                               GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                   748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGAGGTTACCTCTCATTCCTCTAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAGCTTGGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                      568 rereagaareerrecerereageagaagaageragaaagaagaagreereer
                                                                                                                                                        GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                             5775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                        ATATITITATIGECATIGATAATGCAACAGAAAAGGTATGTACTITAAAAAATIGITIGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT
                                                                                        ; Sequence 9, Application US/10627273; Publication No. US20040110189A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 14
US-10-627-273-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
US-10-627-273-9
                       6535
                                                                                        6595
                                                                                                                                                        6655
                                                                                                                                                                                           628
                                                                                                                                                                                                                             6715
                                                                                                                                                                                                                                                             688
                                                                                                                                                                                                                                                                                                                                                                                                                                        6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1108
                                                     508
                                                                                                                                                                                                                                                                                                                                                                                                      808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7134
                                                                                                                   g
                                                                                                                                                        යි ජි
                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                     ሯ
                                                                                        ઠે
                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
```

7073

7014

927

6834

747

6894

867

```
6775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 6834
748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 807
                                                                                                                                                                                    6654
                                                                                                                                 6535 ATAGCTTGGAGAGTGGACAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC 6594
                                                                                                        GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                             Gaps
                                       ij
                           Length 1050;
                                       20; Indels
                        Query Match
6.7%; Score 499; DB 5; I
Best Local Similarity 96.1%; Pred. No. 1.7e-102;
Matches 522; Conservative 0; Mismatches 20;
; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40
                                                                                                                                                                                                                                                                                             7074 ATT 7076
                                                                                                                                                                                                                                                                                                          1048 ATT 1050
                                                                                                                                                                                                                                                                    7015
                                                                                                                                                                                                                                          6955
                                                                             6595
                                                                                                                     628
                                                                                                        6655
                                                              g
                                                                                      6 6 6 6 6 6
                                                                          ò
```

Search completed: December 21, 2005, 21:08:10 Job time : 3788.38 secs

```
; Search time 519.107 Seconds (without alignments) 7442.822 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                             1 gtctatcacctgcttaagat......gattaattaattatgtgtat 7445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Published Applications NA New:*

1: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*

3: /cgn2_6/ptodata/2/pubpna/DS07_NEW_PUB.seq:*

4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

5: /cgn2_6/ptodata/2/pubpna/US0_NEW_PUB.seq:*

6: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*

7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*

10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8336576
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4168288 segs, 259477437 residues
                                                                                                                                                           December 20, 2005, 13:17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                           - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                       US-09-751-797-8
7445
                                                                                                                                                                                                                                                                                                                                                                                   Scoring table:
                                                                                                                                                                                                                                                                                                      score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB
Maximum DB
                                                                                                           OM nucleic
                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Database
                                                                                                                                                                                                                                                                                                Perfect
                                                                                                                                                                 Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Description	8 Sequence 8, Appli 26 Sequence 42, Appli 26 Sequence 26, Appl 27 Sequence 7, Appli 29 Sequence 9, Appli 213 Sequence 9, Appli 213 Sequence 113 Appli 215	Sequence 25, Sequence 18, Sequence 13, 314 Sequence 1331.	Sequence 24, 5 Sequence 105, 460 Sequence 134(600 Sequence 25, Sequence 88,	
SUMMARIES ID	US-11-177-987-8 US-11-177-987-42 US-11-177-987-26 US-11-177-987-7 US-11-177-987-7	US 11-177-987-25 US -11-177-987-28 US -10-995-561-13 US -10-995-561-13 US -11-140-417-22	US-10-933-025-24 US-11-121-086-105 US-10-995-561-13460 US-11-121-086-25 US-11-121-086-88	US-10-995-561-13303 US-10-502-972-25 US-10-995-561-13443 US-11-121-086-105 US-11-108-172-584 US-11-159-516A-28 US-11-121-086-96
. 80	~~~~	9 9 .	91911	999777
Length	7445 5935 4797 1119 1111	690 690 418 173995 119036 11462	171936 171486 20317 173602 184868	201990 196 49979 171486 1431 1652 139054
% Query Match	100.0 57.0 9.2 8.1 8.1		00000	0.00 0.00 0.00 0.00 0.00
Score	7441.8 4245.2 686 601.4 555.2	126 122 70 62.6 61.6	59.2 58.4 57.4 57.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Result No.	<u>ተሪነ</u> የ 4 የ	c c 20	c 12 13 14 15 16	C 17 C 18 C 20 C 20 C 22 C 23

Sequence 1, Appli Sequence 24, Appl Sequence 13396, A Sequence 38, Appl		Sequence 29496, A Sequence 13354, A Sequence 96, Appl Sequence 3, Appli	Sequence 13443, A Sequence 13443, A Sequence 13113, A Sequence 13113, A Sequence 13479, A	Sequence 1330, A Sequence 13421, A Sequence 13473, A Sequence 13473, A Sequence 59, Appl
US-10-661-966-1 US-10-933-025-24 US-10-995-561-13396 US-11-121-086-38	US-11-059-275-1 US-10-995-561-13313 US-10-995-561-13479 US-11-121-086-25	US-10-750-185-29496 US-10-995-561-13354 US-11-121-086-96 US-11-131-212-3	US-11-121-086-08 US-11-121-086-38 US-10-995-561-13313 US-10-995-561-13479	US-10-995-561-13303 US-10-995-561-13421 US-10-995-561-13421 US-10-995-561-13473 US-11-121-086-59
0.7 190276 6 0.7 171936 6 0.7 398287 6 0.7 151169 7		0.7 1819 6 0.7 47444 6 0.7 139054 7 0.7 9196 7		10000
24 53.8 25 53.2 26 53.2 c 27 53	c 28 52.8 c 29 52.8 c 30 52.8 c 31 52.8	2 6 4 5 7	33 37 31 31 32 32 32 33 34 35 35 35 35 35 35 35 35 35 35 35 35 35	41 20 49.8 43 49.6 C 44 49.6 C 45 49.6

ALIGNMENTS

```
APPLICANT: Dumoutier, Laure

APPLICANT: Renauld, Jean-Christophe
TITLE DE INVENTION: Interleukin-21, The Proteins Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
CURRENT APPLICATION NUMBER: US/11/17,987
CURRENT FILING DATE: 2006-07-27
FRIOR FILING DATE: 1000-07-27
FRIOR APPLICATION NUMBER: US09/419,568
FRIOR FILING DATE: 1999-10-18
FRIOR FILING DATE: 1999-10-16
FRIOR FILING DATE: 1999-07-16
FRIOR FILING DATE: 1999-07-16
FRIOR FILING DATE: 1999-07-16
FRIOR FILING DATE: 1999-10-26
FRIOR FILING DATE: 1999-10-26
FRIOR FILING DATE: 1999-10-26
FRIOR FILING DATE: 1999-10-36
FRIOR FILING DATE: 1999-30-30-30
FRIOR FILI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGAAATCTATGTCTTAAACAATCTTCAAGCCTCTAATATAGTGCTAACGACTGGAGTCCG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 GCAACCAGAGCACGTATTTATAGCATGSTGTTCTGACCATGCAGGTACAGAGTGGAATGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAAGAGGCGCTATTATCAGCATTAACCAACATGTTAATGTTTTCTTCTTCTGGCAAACT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GICTATCACCTGCTTAAGATTCTTCTAATTTATAAAAAAAACTATTTCTTAAAATGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 7; Length 7445;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 100.0%; Score 7441.8; Best Local Similarity 100.0%; Pred. No. 0; Matches 7443; Conservative 0; Mismatches
                                Sequence 8, Application US/11177987 Publication No. US20050271619A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-177-987-8
JS-11-177-987-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
```

ð

8 8 4 4 0 0 6 6 6 6 8 8 8 8 4 4 0 0 6 6 8 8 8 8 4	
6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H	8 6 8 6 8 6 8 6 8 6 8
191 TGAATCTATGTCTTAACAATCTTCAAGCCTCTAATATATGTACTAACGAGGCCC 240 241 CTGCTGTCCAACAGAGCTCTTGAACACCTCTCTTTTTTTATTATTTAT	GGGTCTGCCCGCTCTAGGAAAGGCTTCTAGGTGGCGTTTGCGTCGGTCTGGGGT AGGCGTCTGCCTTCTAGGAAAGACTTTCCTAGTTGTGCGTCAGTCTGGTC AGGCGTCTGCTCCCGCTCTAGGAAAGACTTTCCTAGTTGTCGCTGTCTGGTCTAGGGT AGGCGTCTGCTCCCGCTGCTTAGGAAAGACTTTCCTAGTTGTCGGTGCTATCTG ACCATCTATATAGATGTAGTAGTAGAAAAATCCCAGTATTTTGTAATTCTTCTTCTACT ATCCATCTATATAGTAGTATTTTTGTAGGCTCATTTAAAAATATTTTTGAGACTTATGC TTGCACAAGTAAAATGTTATTGTAGGCTCATTTAAAAATAATTTTTGAGACTTATGC TTGCACAAGTAAAATGTTATTGTAGGCTCATTTAAAAATAATTTTTAAAAAAA TTGCACAAGTAAAATGTCAAAGAATTAGCAAATGTATTTTATTTTTAAAAAAA TTGCACAAGTAAAATGTCAATTAGAAATGTATAGTATTTTTATTTTTAAAAAAA TTGCACAAGTAAAATGTCAATTAGAATTAGCAAATGTATTTTCCAAACTTTAAAAAAA TTGCACAAGTAAAATGTCTATTAGAATTAGCAAATGTATTTTCCAAACTTTAAAAAAA TTGCACAAGTAAAATGTCTATTAGAATTAGCAAATGTATTTTCCAAACTTTAAAAAAAA

B & B &

δ

8 & 8 &

8 8 8

8 8 8

දු පු

g

g 9

음 성

ò

8 6 B 6

8 8 8 8 8 8 8 8 8 8

		AAGAATGTCAGAAGGGTGAAGGAGAGGGAAGGTACTATTGGCAAGCCACAATACT	4141 TAGCTGGGTCTATAAATCTTCAATCTGTGTCTAAATTTGTAAGTCACAATTCTGGAGCT 4200 4141 TAGCTGGGTCTATAAATCTTTCAATCTGTGTCTAAATTTGTAAGTCACAATTCTGGAGCT 4200 4141 TAGCTGGGTCTATAGATCTTTCAATCTGTTGTTCGTAAATTCTGAAATTCTGGAGGTCT 4200 4201 AGCAGAAAGCTTAGCTCAGCAGTCTCATGAGCACTTGCTCGGAGGATGGCTTGTGACAG 4260 4201 AGCAGAAAGCTTAGCTCAGCAGTCTCATGAGCACTTGCTCGGAGGATGGCTTGTGACAG 4260 4261 AGTCAATGCTAGAAGCAGATCCCTGATTCCCAGCTCTGCACTTGCCTAGTGGCCATGT 4320 4261 AGTCAATGCTAGAAGACAGCATCCCTGATTCCCAGCTCTGCCTAGTGGCCATGT 4320		
8 8 8 8 8 8 8	8 & 8 & 8 & 8	6 6 6 6 6	6 6 6 6 6	8 8 8 8 8	& a &
2401 CTTTTTCTATTTCTAATTCAAGGTCTCAGGACCATTTCCTATCTTGGCCTTCAGGACACA 2460 2401 CTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCTTCAGGACACA 2460 2461 TATACTGAATTTTATCTACAGGGGGCATTTAGAAAGCCACCACGACTGCAATACTTTC 2520 2461 TATACTGAATTTTATCTACAGAGGGGCATTTAGAAAGCCACCACGACTGCAATACTTTC 2520 2521 CATTCTCTGTGCTCTCTTGAACTCATACTCTTTAGAAGCCACCAGGCAATACTTTC 2580 2521 CATTCTCTGTGCTCTCTTGAACTCATACTCTTTGGCTACTCCTGAGACCCACTGCG 2580 2581 GACATACATACTTACTACAGGCTTTTTTCTTCCTTTGGCTACTCTTGAGACCCACTGCG 2580 2581 GACATACATTACTTACTTACAGGCTTTTTTTTCTTTCCTTTGTCTCTTGTCAGGCACTTAGGGT 2640 2581 GACATACATCTTTACTTACAGGCTTTTTTTTTTTTTTTT	2641	2881 TCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGAGGTGGTACCTTTCCTGACCAAAC 2940 2881 TCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGAGGTGGTACCTTTCCTGACCAAAC 2940 2941 TCAGCAATCAGCTCAGGTTCTAAGTCTGACTCTGAGCTACCTATGCTCCTGTCTTTTTTTT	3061 GGGCCTChGCACCACCATCATAGGCCACTTGAAATAGGTCACAAAGGCTTTGGTTC 3120 3161 GGGCCTCAGCACCACCATCATAGGCCACTTGAAATAGGTCACAAAGGCTTTGGCTTC 3120 3121 AATTGAGTAATACTTTGAGTTGATGAGTGAAGGCTTTATTTGTTTTATCCATGGAAAGA 3180 3121 AATTGAGTAATACTTTGAGTTGATAGAGTGAAGGCTTTATTTGTTTTATCCATGGAAAGA 3180 3181 AATTGAGTAATACTTTGAGTTTGTATGAGTTGAGGCTTTATTTGTTTTATCCATGGAAAGA 3180 3181 AATCAACTCAAATTCTGTATGAGTAGAAAGAGCTTTATTTGTTTTATCCATGGAAAGA 3240 3181 AATCAACTCAAATTCTGTATGAGAAGATGTTGGAAAAAAAGGCCTAGAATAGA 3240 3181 AATCAACTCAAATTCTGTATGAGAAGAAGATGTTGGTATTATCCATGGAAAGA 3240 3181 AATCAACTCAAATTCTGTATGAGAAAGATGTTGGAAAAAAAGGCCTAGAATAGA 3240		3361 TGAGTACAAGTACTTGTGGGGGGGGGATGGCACAGAGGGAAAGTTGAAGGGAAGGAA

17.11 TITTTICGARACANTTICAGAGATTAGTCATTACTACATCACGGGGATTTICCTTTCCATT 18.12 TITTACGARACANTTICAGAGATTACTCACTTACATCACCGGGGGATTTICTTTCCTCTAGAGAGATTACTCACTTTTACCCTCTAGAGAGGGGGGGG
B & B & B & B & B & B & B & B & B & B &
451 TANATUROGCCTOATTCAAAAGACTAAAAATTATAAACACAGAGACTCCCCAAT 4620 461 TANATUROCCTOGCTTCAAAAGACTAAAAATTATAACACACAGACTCATCAATTATATAAACTATA 4600 461 TANCTTCACCCTCGTTTCAAAACACTAAAAATTATAACTCTCAATTATATAAACTTTT 4600 471 TTCACTCCACTCAAACACCTTAAACACCTAACTCCTCTAATTATAAACTTTT 4800 471 TTCACTCCATCAAACACCTTAAACACCTAATTATAACTTTT 4800 472 TTCACTCCAAACACCTTAAACACCTAATTATAACACTTTA 4800 481 ACACTACAAACTTAATTATAACACCTAATTATAACACTTT 4800 481 ACACTACAAACTTAATTATAACACCTTAACTAACTAACT

; ORGANISM: Mus musculus ; FEATURE: US-11-177-987-42	Query Match 57.0%; Score 4245.2; DB 7; Length 5935; Best Local Similarity 88.3%; Pred. No. 0; Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;	QY 1971 TACCATGCTACCCGACGACGACATGCTCCCCTGATGTTTTTGCCTTTTGCTCTCTCACGTAC 2030 Db 293 TACCATGCTATCCGACGAGCATGTTCCCCTGATGTTTTTGCTTTTGCTCTCTCT	QY 2031 AGGCTCTCCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCA 2090	QY 2091 GARATCTATGAGTITTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCATTGC 2150	OY 2151 CCTGTGGGCCCAGGGGAAATGCGCTGCCGGTGCAACTTGAGGTGC 2210 L	OY 2211 CAACTTCCAGCAGCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCT 2270	OY 2271 GCATCTTTCTCTCCATACGGCCTTGCCATTTCTCTGAAGCACTTGCAAACTCTTTAG 2330	QY 2331 GGGGGTTTATCTCCGCAGGTCTCACTACCTATGTTTTCGTCTCTTTAGAGACTCTTTA 2390 bb 652 GGGGGCTTTATCTCGCAGGTCTCACTATGTTTTCTGTCTCTTTAGAGACTCTTTA 711	Qy 2391 AGGACTGGGTCTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGCCT 2450	QY 2451 TCAGGACACATATACTGAATTTTATCTACAGAGGGCGCATTTAGAAAGCCACCACGACTG 2510	OY 2511 CAATACTTTCCATTTCTCTGTGCTCTTCTGAACTCATACTCTTGGCTACTCCTGAG 2570	0y 2571 ACCCACTGCGGACATACATCTTACATGCGTTTTCTTCCATCTCTTCTCCACGG 2630 0b 892 ACCCACTGCGGACATACATCTTACTTACAGGCTTTTCTTCCTTGTCACCCAGG 951 0y 2631 CACTTAGGGTTTTCTCTTTCAGGCCAGCTTTCTTCTTCTCTTGTCACGCCTC 2690 0y 2631 CACTTAGGGTTTTCTCTTTCAGGCCAGCTTGCAGATAACACACAGACGTCCGGCTC 2690 0y 2691 ATCGGGGAGAAACTGTTCCGGGGGGTTAAGTCCTCACTGTGATGAGCAGGCTTAG 1011 0y 2751 ATCGGGGAGAAACTGTTCCGAGGAGTCAGTGAAGTCCTCACTGTGATGAGCAGGCTTAG 1071 0y 2751 CTGCGGGAGAAACTGTTCCGAGGATACTCTGACGTAGATGAGCTGCTACTTCTTGTC 2810 0y 2751 CTGCGGGAGTGAGACCCTCTGGGATAGTCTGACGTATGACCCCTGCTACTTCTTCTTGTC 1131 0y 2761 CTGCGGGGTGAAAGATCAGTGCTACCTGACGTACCCCTGCTACTTCTTCTTGTC 1131 0y 2811 TACCTGCAGGCTAAAGATCAGTGCTACCTGATGAAGGTGCTCAACTTCACCCTGGAA 1191 0y 2871 GACGTTCTGCTCCCCAGTCAAGGCTCAATGCAGGTGCTCAACTTCACCTGGAA 1191 0y 2871 GACGTTCTGCTCCCCAGTCAAGGCTCAAAGGTGCTCACCTGGAA 1191 0y 2871 GACGTTCTGCTCCCCAGTCAGACGTGCTACTACTGACGTGCTTCACTCTGGAATGCTTCACCTGGAATGCTTCACCTGGAATGCTACATGCAGGAGGTGGTTACTTCACCTGGAATGCTTCACCTGGAATGCAGGAGGTGGTTACTTCACCTGGAATCTTCACCTGGAATCTTCACCTGGAATGCTACACTTCACTGGAATCTTCACCTCTGGAATCTACTCACTGACTACTTCACCTGGAATGCTACACTGACAGGAGGAGGTGCTTACTTCACTCTGACTACTTCACCTGGAATGCTTACTTCACTTCACTTCACTTCAC
OY 6781 CAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACAATATTT 6840 	OY 6841 TAITGTCACTGATACAACAGAAAATAATGTACTTTAAAAATTGTTTGAAGGAGG 6900 	OY 6901 TTACCTCTCATTCTTTAGAAAAAAGCTTATGTAACTTCATTCCATATCCAATATTT 6960 	Qy 6961 ATATATATTATTATTATAAGTATACATTTTATTTATGTCAGTTTATTAATAAGG 7020 Db 6961 ATATATGTAAGTTTATTATAAGTATACATTTTATTATGTCAGTTTATTAATATAAGTCAGTTTATTAATGTCAGTTTATTAATGTCAGTTTATTAATGTCAGTTTATTAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATGTCAGTTAATAATAATAATAATAATAATAATAATAATAATAAT	Qy 7021 ATTTATTTATAGAAACATTATCTGCTATTGATATTTAGTATAGGCAAATAATATTTATG 7080 	Qy 7081 ACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCATAAATCT 7140	OY 7141 TCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCATCATC	OY 7201 ATCATTCTGATGATTTCATGCTTGACCCATATTATACTGTTAAGATTGGTTCCTGGAGGC 7260	OY 7261 CTGTGGTTTTGTGTGTGTGTGTGTGTGTGGGGTTATGCATGTGAAAGCCAGAGATGG 7320	Qy 7321 ATATTAGGTGTTCTTCTTATCAGTCTTTGCCTTATTATGAGAGGGTCTGTCACTG 7380	OY 7381 AACCTGTAGGCTGGCCGACAACAAGCTCTATTAATTTTTTTAAGATTAATTA	Qy 7441 TGTAT 7445 Db 7441 TGTAT 7445	RESULT 2 US-11-177-987-42 US-11-177-987-42 Sequence 42, Application US/11177987 Publication No. US20050271619A1 GENERAL INFORMATION: APPLICANT: Dumoutier, Laure APPLICANT: Renauld, Jean-Christophe TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof FILE OF INVENTION: UNDER: US/11/17,987 CURRENT APPLICATION NUMBER: US/91/626,617 PRIOR APPLICATION NUMBER: US/99/626,617 PRIOR FILING DATE: 1999-10-18 PRIOR FILING DATE: 1999-10-18 PRIOR FILING DATE: 1999-07-16 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 43 LENGTH: 5935 TYPE: DNA

8 6 8 6 8 6 8 6

8 8 8

ò

à

ઠે

90 A90

8 6 8 6

5964 5964	4493 GAGAGGAGAGGAGAGAAGAAGAAGAAGAAGAAGAAGAAG	5964	5964GGCAAAGCCAACCATGGGT 5985 4613 AAGAGAAAAGAAAAAAAAAAAGCAAGCAAGCAACGCAACATGGGT 5985	5986 TGAATGTGGGTCTTTGAGTCAAGGCTTTTGAGTTGAGCACTCATCAATAGTTGATCATGG 6045	6046 TCAGGTGGAGGGTACCTGTCAGGCCGAGCCCTGCTGGTGGCTTCGCACTTAACATCTCCAGG 6105 4733 TCAGGTGGAGGGCTACCTGTCAGGCCGAGCCCTGCTGGCTTAGCACTTAACATCTCCAGG 4792	6106 TCTCAGTATCACTTCCTGCTACTTAGCACAGTTAGGAGTTCAGCAACCTTTTTTTCCAA 6165 4793 TCTCAGTATCACTTCCTGCTTAGCACAGTTAGGAGTTGAGCAAACCTTTTTTTCCAA 4852	6166 CCCCCACTAAAATTTAATTGACAAAAGACTGTGTAATTTGTGGGATACAGTGTGATAATT 6225 	6226 GAICTAIGIGGCAITGIGCAAGGITCAATAAGAITAATAGGCCCATCAACAGCIT 6285 	6286 TATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGTGCCTTAGGTCAGAAAGG 6345 	6346 CATGATTTAAGGTCTTGGGCAAATCATATTATACTCATGCTAAAAATACATTATGTTGA 6409 	6406 TTATTAATCTTTTAGAGAGGCTGATACTTGGTTTTTGGTGCTCAGCAAGCA	6466 AGCTCTTTCTAACTGGTACCACTTTAGAAAATGCTACCTGTGCTCAAATTGGTTTGTATT 6525	6526 CTTATTTTCATAGCTTGGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCT 6585	GTTTATGTCTCTGAGAAATGCTTGCGTCTGACGAGAAGAAGGTAGAAAACGAAGAACTG 		6706 AAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGA 6765 [6766 AAAAGAAAATAGTGTCAAGTTGTCCATGAGACAGAGGTAGACTTGATAACCACAAAGAT 6825 	6826 TCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAAAAAA	12. ICALIONCANIALITATION DE LA CONTROL DE LA
<i>&</i>	QQ (∂ 8	දු පු	SP GS	ò 8	රු සි	& A	ර් සි	è 8	& A	ඊ සි	& A	& 8	<i>&</i> ₽	දු පු	& 8	රු අ	ò 5	8 8
おいいりは やんいいい はんじん かいいい かんかい かんかい かんしん かいかい かんしん かいかい かんしん かいかい かんしん かんしん	3416 GITACCITGACACCIGGGCTIGGGCTIGGCCACACACACACACACACACACACACACACACACACA	5190 GTGTAAAAGGTTATTATTCATTTACTTTTGGAAAGGTGAAGCGTGTGTGT	AACTCACAGGAGATGTGTTCTCTGTAGGAAAACTTTTTTTT	TCCACTTTCAGTCAACTTTGACTTTTATACCATGCTGTCACTGAAAGAGTGTTTAGGCC	CGCTCTCATGGCTCTGGGAAAAGCACCAATAGGGAAGGAA	ACCGGCAGGGAAACTGGTCCAGAGCCCCCGAAGACCACCACAGGTGTTAAGTAGAACA 	GTCCAGGGTGGGTCTCATGTAATAGAATGGAACAGAGCGAGGGAAGATAAGCTACAAAGTT 	5550 TCATAGGGTCCGGAGTCTTAAAGATACAAAATAGCTGCTTGGGCTTCATAACAAAGGAAG 5609 	TCTGGGAAGGCAGCAGTGAGAGGGAAATGGAAAAAGGAAAAACAGAAAAACTGGAATGTAGAGA TCTGGGAAGGAGGAGCATTGAGAGGGAAAAAGGAAAAAAGGAAAAAACAATGTAGAAGA	CTTGAACAGCTACAAATCCTCTACCAGACGATTTTTCTTGGAACAATCTAGAAGGT 	AGTGGATTAGGT - GATTGCAGGGGGACTTGCTTTGCCATTGGAATCTGGGTTTTTGTCTC	5782 TCCATTGAGGTTGAAAGCGTCACC-TTTTTACCCTCGAATGGAGGAAAGAAGGGGT 5840 	GTTATGACTCCTACCTGGAGTTTTACTAGTTACGGAATGGAACAGACACTGGGACCTC 590 GTTATGACTCCTACCTGGAGTTTTACTAGTTACGCAATGGAACAGACACTGGGACCTC 419 GTTATGACTCCTACCTGGAGTTTTACTAGTTACGCAATGGAACAGAACACGGGACCTC 419	CTCTTGACAAAAAAAATGGAAACCTGTTGTTTGTCTTTGTTCTTTTG	S951 TTAAGAAAGCACA	A DE		4373 CAGCCAGGGCTATACAGAGAAACCCTGTCTCGGGAAAAAAAA	4433 AAAAGAAGAAGAGAGAGAGAGGAGAGGAGGAGGAGGAGG

8 6 8 6 8 6 8 6

4347 TTGGGAAAGCCAGTTCCCACGGACCTACATI 2357 TAGGGAAATTTCAGATTCCTATTGACTATGACT 4465 GAAGCTGGCGACAAACTTATTGAGATT 4461 TGAAATGTGGCAAAATCACCCAGAATGAC 4521 AGTATTTAGAATTAAACACAGAACTATTTTTTTAAACTACAC 4521 AGTATTTAGAATTAAACACAGAGCAATAACACTATTTTTTTT	3186 GCATGCCACAGACAGGCATGCTTTACACATC 5216TTGTCTTTGGAAAGGTGAAGCGTGTGT 3246 GCTTGTTGTCTTTAGAAAAGTGAAGTGTGAGA 5271 CTGTAGGAAACTTTTTTTTTCCCTTAAATG 3297TCTGTGTGATTTTAAGAGG 5328 TGACTTTTATACCATGTGATTTTAAGAG 5343 TCATATTGCAATGGGTTGCCATGAAAGAG 3343 TCATATTGCAATGGGTTGCCATGTAAAGAG
6	8 4 8 4 8 8
1282 A	TCTAAATTTCTTTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
3	8 6 8 6 8 6 8 6

AGTGTCATGAAAGTATGAGATGGAAACCC 4700 TCTTAGTTTTTTTTTTCTTCACACCCTGA 4752 ATAGCAGAGAAAGTGAGGCTCTTCGCAAG 4932 TTGAGTGTTCATGGCTTTGTAGATTTTTA 5100 GCCTATAATCCACTTTCAGTCA---ACTT 5327 ACADAAGAGCTGGATTTGCAAATAGGACA 4520 TTTTGAATTATCATAATATCTATCAGATA 2589 CCTCCCAATTTACTTGGCCTGGTTTCAAA 4640 AGCTATTATATGACTTTACAGCAACAAC 4812 AGGATAGCAGGAGGCTCAGGTAGCAAGT 4872 A--ACAATGGAAGGCTTAGACTAACAATA 2886 TCGAACCTAAATCGTCTCTTTTTTTTGTG 5042 GTTACCTTGACACCTGGGCTTGGATGTTA 5158 ||| || ||||| |ATTATCTAGACATGGAGGCTGAATGTTA 3185 GIGTAAAGGTTATTATTCATTTACT--- 5215 CTTGCTTAAAAATTACTGATTTCATCTT 3245 TGAGAAAGTCACAGGAGATGTGTTCT 5270 AGAGGAGAATCTCATGGTGA----- 3296 CATCTTAATTAAAATATAGGGCCTATATA 4580 CC-CCGATCTCTTTATACAGGTTCAAAT 2648 GIGITIAGGCCCGCICTCAIGGCTCIGGG 5387 GIGATTATGCTTTTTGCTGGTAGCTTCA 3402 TAATCTGAAGAACCATGCATTGAAACTA

Db 688 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 747	Qy 6775 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 6834	OY 6835 ATATTTTATTGTCACTGATGATACAAGAAAAAATGTACTTTAAAAAATTGTTTGAA 6894 	QY 6895 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTTCCATATCCAA 6954	Qy 6955 TATTTATATATGTAAGTTTATTTATATAAGTATACATTTTATTTA	Qy 7015 ATATGGATTTATTTATAGAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 7073	Qy 7074 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCA 7133 .	December 13.7 13.4 13.7 13.	Db 576 TCTGAGAAATGCCTGCATTTGACCAGAGAAAGCTGAAAAATGAATAACTAAC
Db 750 TAGTGTCAAGTTGTCCATGAGACCAAGGGTAGACTTGATAACCACAAAGATTCATTGACA 809	Oy 6835 ATATTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA 6894 	Oy 6895 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA 6954	Qy 6955 TATTITADATATGTGAGTGTTATTATTATGAGTATACATTTTATTTAT	Qy 7015 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074	Qy 7075 TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134	Qy 7135 AAA 7137 	RESULT 5 US-11-17-987-9 US-11-17-987 Sequence 9, Application US/1117987 Publication No. US2005077161941 Sequence 9, Application US/1117987 Publication No. US2005077161941 APPLICANT: Dumoutier, Laure TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof CURRENT FILING DATE: 2006-07-07 PRIOR PELING DATE: 2006-07-07 PRIOR PELING DATE: 2006-07-07 PRIOR PELING DATE: 1999-10-18 PRIOR APPLICATION NUMBER: US09/134,243 PRIOR APPLICATION NUMBER: US09/134,243 PRIOR APPLICATION NUMBER: US09/138,973 PRIOR APPLICATION NUMBER: US09/178,973 PRIOR PILING DATE: 1999-10-26 PRIOR PILING DATE: 1999-10-26 PRIOR PILING DATE: 1999-10-26 PRIOR PILING DATE: 1999-10-38 PRIOR PILING DATE: 1999-10-38	Qy 6715 GCTAACGTCCATCATTAGAAGATTTCACATGAAACTTGGCTCAGTTGAAAAAGAAAA 6774

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Insolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: UMBER: US/11/17,987
CURRENT APPLICATION NUMBER: US/09/626,617
PRIOR FILING DATE: 2000-07-27
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-07-16
PRIOR PRILING DATE: 1999-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6711 AGAAGCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAG 6770
                                                                                         2154 GIGGGCCCAGGAGGCAAAIGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGTGTCCAA 2213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        337 gdaagccaaactccatcatgatggagagattccaaatgaacccctgcgtragtacaaag 396
                                                                                                                                     CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAGTCCAA 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               277 cccriecracaaaraacaarradargccccaaagcgarrrrrrraaccaaaaggaagard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTT----ACTAAAGGAAAGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  217 rereagaaarecerecarreaceagacaaagereaaaaraaaraaaraaceceerrr
                              6535 ATAGCTTGGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
Gaps
                                                                                                                                                                                             2214 CITCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGG 2263
                                                                                                                                                                                                                            4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 122; DB 7; Length 418;
Pred. No. 4.9e-20;
0; Mismatches 65; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 13277, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
                                                                                                                                                                                                                                                                                                                                                                 Sequence 18, Application US/11177987; Publication No. US20050271619A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 71.7'
Matches 175; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6771 AAAA 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAA 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 9
US-10-995-561-13277/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-177-987-18
                                                                                                                                                 149
                                                                                                                                                                                                                                                209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                      셤
                                                                                                 8
                                                                                                                                                                                             à
                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Dimoutier, Laure
APPLICANT: Dimoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5664
CURRENT APPLICATION NUMBER: US/09/626,617
PRIOR APPLICATION NUMBER: US/09/626,617
PRIOR APPLICATION NUMBER: US/09/419,568
PRIOR PRILING DATE: 1999-10-18
PRIOR PRILING DATE: 1999-10-18
PRIOR PRILING DATE: 1999-07-16
PRIOR PRILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
NUMBER: US/09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER: US/09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER: US/09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER: US/09/178,973
PRIOR PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
LENGTH: 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAACTICA--TITCCATATCCAATATITTATATATGTAAGTITATITATATAAGTATA- 6990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6991 -----CATTTTATTTATGTCAGTTTATTAATATGGATTTTATTATAGAAACATTATCTGC 7045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GACTGCATTTTATTTATTTATTATTATATGGATTTTATTATAGAACATCATTCGA 1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1056 TATTGCTACTTGAGTGTAAGGCTAATATTGATATTATGACAATAATTATAGAGCTATAA 1115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TATTGATA-TTTAGTATAAGGCAAATA---ATATTTATGACAATAACTATGG----AAAC 7097
                                                                                                                                                                                                                                                                                                                                                                                                  AATTGTTT-----GAAAGGAGGTTACCTCTCATTCCTTTA---GAAAAAAAGCTTATG 6933
                                                                                                                                                                                                  5771 AAAATAGTGTCAA--GTTGTCCATGAGACCAG-AGGTAGACTTGATAACCACAAAGATTC 6827
                                                                                                                                                                                                                                                                                                   ATTGACAATATTTTATTGTCACTGATG----ATACAACAGAAAAATAATGTACTTTAAAA 6883
                                                                                                                             936 TAGCTICALGITICCATAATCAGTACTITATATTATAAATGTATTATTATTATTATTATTATAA
                                                636 cccrigcriagaarraacaarragargccccaaagcgarrrrrrraaccaaaaggarg 695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2034 CICTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                GAAACCAATGCCACTTTTTTTTTATAAGACCAGAAGGTAGACTTTCTAAGCATAGATATTT
                                                                                                      5711 AGAAGCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 126; DB 7; Length 690;
Pred. No. 7.1e-21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        65; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7098 AAGATATCTTAGGCTTTAATAAACACATGGATATC 7132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1116 cargirrarridaccicaaraacacriggararc 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 25, Application US/11177987; Publication No. US20050271619A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 1.7%;
Best Local Similarity 71.7%;
Matches 165; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; FEATURE:
US-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         53
                                                                                                                                                                                                                                                                                                      6828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6934
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7046
                                                                                                                                                                                                                                                                                                                                                                                                     6884
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     966
                                                                                                                                                                                                                                                     756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE
                                                                                                                                                                                                                                                                                                                                                                                     강 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                              8 6 8 6
                                                                                                                                                                                                                                                                                         δ
6
                                           ď
```

```
APPLICANT: O'Brien, Deborah A
APPLICANT: Bddy, Edward M
APPLICANT: Bddy, Edward M
APPLICANT: Bddy, Edward M
TITLE OF INVENTION: GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE-S (GAPDS), A GLYCOLYTIC
TITLE OF INVENTION: GNYAME EXPRESSED ONLY IN MALE GERM CELLS, IS A TARGET FOR MALE
TITLE OF INVENTION: CONTRACEPTION
TITLE OF INVENTION: CONTRACEPTION
CURRENT APPLICATION NUMBER: US/11/140,417
CURRENT APPLICATION NUMBER: US/01/11-27
PRIOR APPLICATION NUMBER: PCT/US2003/037800
PRIOR FILING DATE: 2002-11-27
PRIOR FILING DATE: 2003-11-26
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PATENTIN VERSION 3.3
                                                                                                      31488 TTTTATATATATTTTATATATATAAAATCTTATTTTTATATATATTTTATATATATATATATATA 31429
                                                                                                                                                                                                     31309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31248 ATTTTTCTAAAATATAATTTTTTTCTTTTAAACTTTTTTCCTTTTTCCCAGGGGGAATGC 31189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7228
                                                                                                                                                                                                                                                                                                                                                                                                                                                     492
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            87 CCTCTGGAACTGGAGTTACACAATGTTGTGAACTTCTACGTGGGTGCTGGGATCTGAACT 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   493 GCCCTGGCACCGGAGTCACGGATGGTTGTGAGCCACCATGAGGATGCTGGGAGTTAGACC 552
                                                                                                                                                                                                                                                                                                      ATATTTAGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCTTAGG
                                                                                                                                                                                                                                                        CTTTAATAAACACATGGATATCATAAATCT - - TCTGTCTTGTAATTTTTTCTCCCTTTAAT
                                                                                                                                                                                                                                                                                                                                                         ATCAACAATACCATCATCATCATTACCCAATCATTCTCATGATTTTCATGACCC
                                                                                                                                                                                                                                                                                                                                                                                                     TGTGGGGTTATGCATGTGAAAGCCAGAGATGGATATTAGGTGTTCTTCTTCTATCAGTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGTATGTCTGTGCACCAAGTGCTGCCTGGTGCTTGTGGGGGCAAAGAAGAGCAGG-AGAGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rargrargregaaccrerecegeracegereccrecagaeeccagaagaeecarcagar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGGICCICCAGAAGIGCAGCAAAIGCICITAACCACACGCAGGCAITICICICIC 608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 61.6; DB 7; Length 11462; Pred. No. 0.00023; 0; Mismatches 64; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31128 AGTCTTGCTTTGTCACCCAGGCT 31106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7349 IGCCTTATTATTTGAGACAGGGT 7371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 22, Application US/11140417
Publication No. US20050266515A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 63.1
Matches 111; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; ORGANISM: Mus musculus US-11-140-417-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-11-140-417-22
                                                                                                                                                       7051
                                                                                                                                                                                                                                                        7111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 22
                                                          6991
                                                                                                                                                                                                                                                                                                                                                         7169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       147
                                                                                                                                                                                                                                                                                                                                                                                                       31308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                          ઠે
                                                                                            8
                                                                                                                                                       ઠે
                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                용
                                                                                                                                                                                                                                                                                                                                                                                                                                                     δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: (1) ... (119036)
OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     122920 ATGGTGTATTACTTGTTTTGATATAGTATGTACATTGTGGAATGGCTAAGATGTTTAACA 122861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    122860 CAGGCATTACCTCACATACTAGTCTTTTTTTTGGTGATGAAAACATTAAAAATGTATTCT 122801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   122800 TAACAATITITCAAATATITCAATATATTGTTATTAACTGTAATCATCATGTAGTGTACAACAG 122741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      122921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6931 AIGTAACTICATITICCAIATCCAATATITIATATATGTAAGTITTATTATAAGTATA 6990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-995-561-13114/c

Sequence 13314, Application US/10995561

Sequence 13314, Application US/10995561

Publication No. US2050272054A1

GENERAL INFORMATION OF US2050272054A1

TITLE OF INVENTION: CARDILL, Michele et al.

TITLE OF INVENTION: CARDICARDONASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF TITLE OF INVENTION: DETECTION AND USES THEREOF

TITLE OF INVENTION: DETECTION AND USES THEREOF

TITLE OF INVENTION: DETECTION AND USES THEREOF

CURRENT PELICATION NUMBER: US/10/995,561

CURRENT FILING DATE: 2004-11-24

NUMBER OF SEQ ID NOS: 85702

SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATAGCAT----GGTGTTCTGACCATGCAGGTACAGAGTGGAATGGTAAGAGGCGCTATTA 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q
                              CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS DETECTION AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    122980 TTTATGTAATTTTTÄTTTGTAAATTAGAAATÄÄCTTTACAÄGTÄÄAAÄTTAAÄTATÄTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAACAATCTTCAAGCCTCTAATATAGTGCTAACGACTGGAGTCCGC-TGCTGTCCAACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6871 ATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                     20 TICTICINATITIALAAAAAACTATITICTIAAAAIGAAAAGCAACCAGAGCACGIATIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 119036;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3;
                                                                                                                                                                                                                                                                                                                                                    Similarity 57.7%; Pred. No. 1.1e-05; Similarity 57.7%; Pred. No. 1.1e-05; Conservative 0; Mismatches 115; Indels 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    122740 ArcicicaAacriaririririciaAcrigaAririrgigicarir 122697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCTCTTGAGCACGCTCTCTCTGTTTGCAATTTTATGTTCTTT 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 0.8%; Score 62.6; DB 6; Length 1
Best Local Similarity 47.9%; Pred. No. 0.00057;
Matches 241; Conservative 0; Mismatches 259; Indels
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RES
FITLE REFERENCE: CLOOLSES
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 13277
LENGTH: 173995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (119036)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: misc_feature
                                                                                                                                                                                                                                                                                    ; ORGANISM: HOMO US-10-995-561-13277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-995-561-13314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 13314
LENGTH: 119036
                                                                                                                                                                                                                                                                                                                                                                                                     164;
                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local S
Matches 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       196
```

유

a P ઠે 셤

ઠે

셤

ò

셤 ò

8

g ò

```
6946 CATATCCAATATTTTATATGTAAGTTTATTATTATAAGTATACATTTTATTATTATGTC 7005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 20317;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
0.8%; Score 57.4; DB 6; Length 2
Best Local Similarity 46.3%; Pred. No. 0.0035;
Matches 244; Conservative 5; Mismatches 271; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
US-10-995-561-13460
                                                                                                                                                                                                                                                                                                      US-10-995-561-13460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6965
                                                                                                                                                                  7125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                       셤
                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ठ
                       q
                                                     8
                                                                                셤
                                                                                                           ò
                                                                                                                                                                  ð
                                                                                                                                                                                           g
                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTACGGGIGGTIGTGAGCCACCATGTGGTTGCTGGGATTTGAACTCAGGACCTCCAGAAG 71829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6886 TIGITIGAAAGGAGGITACCTCTCATICCTTIAGAAAAAAAGCTIATGTAACTICATTIC 6945
                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                  508 TCACGGATGGTTGTGAGCCACCATGAGGATGCTGGGAGTTAGACCCCAGGTCCTCCAGAAG 567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                           Query Match 0.8%; Score 59.2; DB 6; Length 171936; Best Local Similarity 83.8%; Pred. No. 0.0049; Matches 67; Conservative 0; Mismatches 13; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 171486;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 58.4; DB 7; Length 1 Pred. No. 0.0077; 0; Mismatches 206; Indels
                       Sequence 24, Application US/10933025

Publication No. US20050265987A1

GENERAL INFORMATION:

APPLICANT: ROSEN, STEFAN

APPLICANT: TOMITA, MEGUMI

TITLE OF INVENTION: Sulfortansferases and methods of use

TITLE OF INVENTION: Lhereof

FILE REFERENCE: UCAL-230CON

CURRENT FILING DATE: 2004-09-01

PRIOR APPLICATION NUMBER: 10/025,966

PRIOR APPLICATION NUMBER: 60/258,577

PRIOR APPLICATION NUMBER: 60/258,577

PRIOR PILING DATE: 2000-12-27

PRIOR PILING DATE: 2000-12-27

PRIOR FILING DATE: 2001-09-05

NUMBER OF SEQ ID NOS: 26

SOFTWARE FERSENCE: Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       568 IGCAGCAAAIGCICITAACC 587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 0.8%;
Best Local Similarity 49.5%;
Matches 206; Conservative
                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 105
LENGTH: 171486
                                                                                                                                                                                                                                                                                         SEQ ID NO 24
LENGTH: 171936
              US-10-933-025-24/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 13
US-11-121-086-105
                                                                                                                                                                                                                                                                                                                                                   US-10-933-025-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                             71888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
```

```
18098 ATATAYWATATATGATATACTATATATATATATATATGATATAATATACTATGATATA 18157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTAC 6904
                                                       7006 AGITTAT-TAATATGGATTTATTATAGAAACATTATCTGCTATTGATATTAGTATAAG 7064
                                                                                                                                                                  7065 GCAAATAATATTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACA 7124
                                                                                                                                                                                                                                                                         TGGATATCATAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCA 7184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 13460, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT APPLICATION NUMBER: US/10/995,561
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 13460
LENGTH: 20317
                                                                                                                                                                                                                                                                                                                                                                                                                                   7185 TCATCATCATTACCCAATCATTCTCATGATTTCATGCTTGACCCATATTATACTGT 7240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGTAAGTTTATTTATTAAGTATACATTTTAT-TTATGTCAGTTTATTAATATGGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7024 TAITTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATATTTATGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7084 ATAACTA-----TGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6725 ATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6785 TIGICCAIGAGACCAGAGGIAGACTIGAIAACCACAAAGAITCAITGACAAIAITITAIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCTCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAATATTTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7;
```

```
136419 татататалаттатататалалататалалалатататататататататалал (136478
                                6899 GGTTACCTCTCCTTTAGAAAAAGCTTATGTAACTTCATTTCCATATCCAATATT 6958
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6959 TTATATATGTAAGTT-TATTATAAGTATACATTTTATTATGTCAGTTTAATA 7017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7075 TITATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCAT 7134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7018 TGGATTTA---TTTATAGAAACATTATCTGCTATTGATATTTAGTATAAGGCAAATAATA 7074
                                                                                                                                                                         US-11-121-086-25

Sequence 25, Application US/11121086

Publication No. US20050266459A1

GENERAL INFORMATION:
APPLICANT: POULSEN, TIM S.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
TITLE OF INVENTION: NUMBER: US/11/121,086
CURRENT PILING DATE: 2005-05-04

PRIOR PILING DATE: 2004-05-04

NUMBER OF SEQ ID NOS: 107

SOFTWARE: PatentIn version 3.3

SEQ ID NO 25

LENGTH: 173602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6839 ITTATTGTCACTGATGATACAACAGAAAATAATGTACTTTAAAAAATTGTTTGAAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7195 TACCCAATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAA 7244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match

0.8%; Score 57.2; DB 7; Length 173602;
Best Local Similarity 49.5%; Pred. No. 0.015;
Matches 203; Conservative 0; Mismatches 203; Indels 4;
                                                                                                 7198 CCAATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAA 7244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search completed: December 21, 2005, 18:11:37
Job time : 554.107 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo sapiens
US-11-121-086-25
                                셤
                                                                    ò
                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          d
 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
```

THIS PAGE BLANK (USPTO)

Loidsul Made Blank (uspra)

```
December 20, 2005, 13:17:12 ; Search time 125.756 Seconds (without alignments) 15704.028 Million cell updates/sec
                                                                                                                                                                                                                                                             US-09-751-797-9
1111
1 aacaggototocototoagtt.....aaacacatgaatatoataaa 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2606114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Issued Patents NA:*

1: /cgn2 6/ptodata/1/ina/1_COMB.seq:*

2: /cgn2 6/ptodata/1/ina/6_COMB.seq:*

3: /cgn2 6/ptodata/1/ina/6A_COMB.seq:*

4: /cgn2 6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2 6/ptodata/1/ina/B_COMB.seq:*

6: /cgn2 6/ptodata/1/ina/PTUS.COMB.seq:*

7: /cgn2 6/ptodata/1/ina/PE_COMB.seq:*

8: /cgn2 6/ptodata/1/ina/PE_COMB.seq:*

9: /cgn2 6/ptodata/1/ina/PE_COMB.seq:*

9: /cgn2 6/ptodata/1/ina/PE_COMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                      1303057 segs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                        OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                      IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                   Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                          Run on:
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

	Description		Sequence 9, Appli	6	ġ,	Sequence 3, Appli	40,	7	7,	Sequence 7, Appli	17,	53	29,	Sequence 8, Appli	æ	ω̈	ų	'n	Sequence 14, Appl	14,	544	Sequence 24, Appl	24,	Sequence 17185, A	ď,	25	
SUMMARIES	ΩI		US-09-178-973B-9	US-09-419-568F-9	US-09-354-243B-9	US-10-084-298-3	US-10-090-365-40	US-09-178-973B-7	US-09-419-568F-7	US-09-354-243B-7	US-09-178-973B-17	US-09-419-568F-29	US-09-354-243B-29	US-09-178-973B-8	US-09-419-568F-8	US-09-354-243B-8	US-10-084-298-1	US-09-870-574-1	US-10-090-365-14	US-09-728-911-14	US-09-949-016-5443	US-09-419-568F-24	US-09-354-243B-24	US-09-949-016-17185	US-10-084-298-9	US-09-419-568F-25	
	DB	ij	m	m	m	ო	ო	m	ო	m	ო	m	ო	m	М	m	ო	ო	m	٣	m	ო	m	ო	m	т	
	Length		1111	1111	1111	1166	1050	1119	1119	1119	5935	5935	5935	7445	7445	7445	1191	1152	1116	1116	689	069	069	8888	191	4797	
de	Query		100.0	100.0	100.0	94.5	94.4	94.3	94.3	94.3	54.2	54.2	54.2	50.0	50.0	50.0	47.6	47.3	47.3	47.3	36.7	36.7	36.7	19.6	16.7	11.5	
	Score		1111	1111	1111	1049.4	1048.4	1047.8	1047.8	1047.8	602.4	602.4	602.4	555.2	555.2	555.2	529	525.6	525.2	525.2	407.6	407.6	407.6	217.4	185.2	127.6	
	Result No.		1	7	ო	4	ß	9	7	œ	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	

Sequence 25, Appl Sequence 8582, Ap Sequence 8674, Ap	9844	Sequence 12699, A Sequence 12699, A Sequence 12033, A Sequence 15092, A Sequence 3, Appli	3, 146, 171, 166	Sequence 171661, Sequence 2, Appli Sequence 12378, A
US-09-354-243B-25 US-10-131-827-8582 US-10-131-827-8574	US-10-131-827-8435 US-10-131-827-8425 US-09-949-016-12900 US-09-949-016-12412	US-09-949-016-115092 US-09-949-016-115699 US-09-949-016-12033 US-09-949-016-15092 US-09-801-861-3 US-10-224-562-3	US-10-786-065-3 US-09-949-016-14624 US-09-949-016-11662 US-09-949-016-16609 US-09-949-016-16699	US-09-949-016-171661 US-07-867-106-2 US-09-949-016-12378
4797 3 338 3 258 3	194 3 462589 3 476044 3	53,119 3 19438 3 01674 3 33719 3 53332 3	53332 3 147382 3 601 3 298336 3 65415 3	601 3 5852 2 119153 3
11.5	- 0 0 0 0 - i 0 4 4 6	, , , , , , , , , , , , , , , , , , ,		0.0.0
127.6 83.4 82.4	611.4 60.2 60.2	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	56.2 56.2 56.2 56.2 56.2	55.8 55.8
25 26 27	0 30 33 0 3 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 8 8 8 9 8 4 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 5 5

ALIGNMENTS

RESULT 1
US-09-178-973B-9
; Sequence 9, Application US/09178973B
; Patent No. 6274710
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Louhed, Jamila
; APPLICANT: Renauld, Jean-Christophe
, TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Ir
; TITLE OF INVENTION: (TIFs)
; TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
; FILE REFERENCE: LUD 5543
; CURRENT APPLICATION NUMBER: US/09/178,973B
; CURRENT FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 17
SEQ ID NO 9
; LENGTH: 1111
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-178-973B-9

nducible Fac

	ő			0	0	0	0	0	0	0	0	0
	-	9	9	120	120	180	180	24	24(30	30	36(
	80	CCT	- 5 - 5	CAT	CAT	GGT	-69 -19	CAG	-8 -8	C.B.C.	CAG-	다.
	0; Gaps	TGT	- <u>1</u> 5	Ď.	-1-C-1	TGA	Ţ.) 1993 1	-Ö -Ö	AGT	AGT	TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGGTCAACTTCACCCTGGAAGACATTCT 360
.,	.; 0	ဗ္ဗ-	-6 -6	GCT	-6 -6	55-	-6 -6	99-	-8	84-	AGG-	AGH -
11		<u>5</u>	- <u>5</u>	55	_ <u>5</u>	5	- <u>8</u>	8	-8 -8	5- 5-	- <u>2</u>	250
gth	els	9 9 -	-65 -65	GCTC	- L - C - C	961	-69 -15	Š.	-ğ	TGT	TGT	55 <u>-</u>
Len	Indels	GAT	GAT	CC.	= <u>5</u>	22	-0 -0	55-	_5 -5	AAC -	-S	Ş=
5		55	-5	3000	-00 -00 -00	5 5	-5 -5	TT	Ę	AG-	- SAG	ACT
Score 1111; DB 3; Length 1111	, , ,	CTT	1 AACAGGCTCTCCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT	TTG	GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTGCT	TGCCCTGTGGGCCCAGGAGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT	TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT	ACC	181 GTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 240	9999	CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGAGTCAG 300	CT
	eB.	SE-	-g	ACT	- K	ე ე	_0 _0 _0	ည်- ည	_ _ _ _ _ _	ATC	-ATC	EGTG
111	0; Mismatches	FI	-F-	9999) []	- SC	AAC -	-8 -8	SCIC	- Ņ	55
e a	ismai	ACT.	A-Ci	TAT	TAT	ξ. Σ	-15 -15 -15	GG.	_E	უ- უ-	-8 -8	GAAC
800	Σu	Σ <u>.</u>	_턴	CCT	_Ç	¥-	-¥-	CAT	_£	[G	-6 -6	GAT
		STIP	STT	T.		8	- 66 - 66 - 66	GIA		AG.	-8	55
100.08;		TCAC	-5 -5	GTT	- E	4GG/	AGG/	AGC -	- BG	ACA:	Ğ	3CT2
2 5	tiv	Ω	-5-	TGA.	-ğ	ပ္ပ- ပ္ပ-	_0 _0 _0	AGC.	-8G-	SA:	=\$ -\$	AGT.
:	, A	ST.	_5	CT	_ - E	95- 95-	= <u>8</u>	55 E	_5 _5	ATA	EAT.	AATC
;	onse	55-	-89 -03 -03	AAA	-A-	C11G	-15 -13	ξ.	_₽ _₽	GCAC	-g-	₩ =
	10	Š-	-Ř	SAG-	- GA	ပ္ပ-	- - - - - - -	5. 5.	_단 -단	Ę:	Ē	55 E
;	11;	1 A-	-Æ	61 G	61 G	121 T	121 T	E-	_B	241 C	241 C	301 T
Matc	3 = =			•	•	17	7	ä	ä	77	5	ĕ
Query Match 100.0%;	Matches 1111; Conservative											
ge	Mat				_				_		•	
		8	g	ઠે	g	ઠે	엄	Š	d	8	g	ઠે

```
540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          960
                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                                                                 300
                                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                                                                                        420
                                                                                                                                                                                                                                                                                                                                                                                                                                             420
                                                                                                                                  9
                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                        GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                             GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                         GICCAACTICCAGCAGCCGTACATCGTCAACCGCACCTITATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                        TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                     TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGGGGAACTGGACCTGCTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGGAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTAGAAAACGAAGAACTGCTCCTTCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACTITITIACIDAAGGAAAGIGAGAAGCIDACGICCACCATCAITAGAAGATITCACAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACCTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAAG
                                                                                                                                                                                                                                         gerececeagreagacagaricegacecracardeagagargargerecrareceaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                         AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                              TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                          Gaps
                                                                                                         ;
                                                                                    Length 1111;
                                                                                                         Indels
                                                                                ; Score 1111; DB 3;
; Pred. No. 3.4e-274;
0; Mismatches 0;
                                                                                   100.0%;
                                                                                  Query Match 100.
Best Local Similarity 100.
Matches 1111; Conservative
                                     musculus
SEQ ID NO 9
LENGTH: 1111
TYPE: DNA
ORGANISM: Mus #
FEATURE:
                                                           US-09-419-568F-9
                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            901
                                                                                                                                                                                 61
                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                          8 8
                                                                                                                                                                                                                                                                                                                                                                  ⋧
                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                         ል ል
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             충
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                   ઠે
                                                                                                                                                     a
                                                                                                                                                                       8
                                                                                                                                                                                               셤
                                                                                                                                                                                                                        ⋧
                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Lounded, Jamila
APPLICANT: Lounded, Jamila
APPLICANT: Lounded, Jamila
APPLICANT: Lounded, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIFE) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIFE) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (US) 99-10-18
FILE REPRENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US) 99-10-18
PRIOR PILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                    99
                                                                                                                                                                                                                                                                 GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                            CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         420
                                                420
                                                                                                                                                                      900
                                                                                                                                                                                             600
                                                                                                                                                                                                                                           099
                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                                CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                              AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                    AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCTTTCCTCTAGAAAAA 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT 960
                                                                                                                                                                                                                                                                                                                                        GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
  TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                      GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                    CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATTATAGAAAAATTATCTGATG
                                                                                                                                     CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCAGAAGAAG
                           GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                       TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                       CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                           ctagaaaacgaagaactgctccttcctcctrctaaaagaacaataagatccctgaatg
                                                                                                                                                                                                                                                                                                                  GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 9, Application US/09419568F; Patent No. 6331613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 2
US-09-419-568F-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1081
   301
                          361
                                                 361
                                                                         421
                                                                                                 421
                                                                                                                       481
                                                                                                                                                                      541
                                                                                                                                                                                             541
                                                                                                                                                                                                                    601
                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                         661
                                                                                                                                                                                                                                                                                                                  721
                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                      781
                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                       841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    961
                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                                                                                                                                                                                                                                                                                                                                             901
                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 6
                                           8 8 8 8
                   ò
```

```
1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1021 TTGATATTTGAGTATAAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                                                                                                                                               720
                                                                                                       900
                                                                                                                          541 CGGGGAACTGGACCTGCTGTTTATGTCTCTCAGAAATGCTTGCGTCTGAGCGAGAAAAGG 600
                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                  720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           660
                                                                                                                                                                                                                                                                                                                     780
                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                                                                                                                                                               840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCTTCTCTCTGAAAAAAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACACAAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 4

US-10-084-298-3

Sequence 3, Application US/10084298

Patent No. 6939545

GREENTAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: Pouser, Lynette
APPLICANT: Spaulding, Vikki
APPLICANT: NUMBER: CO002-09-10
PRIOR PLICATION NUMBER: 60/270,823
PRIOR PLICATION NUMBER: 60/281,353
PRIOR APPLICATION NUMBER: 60/281,353
PRIOR APPLICATION NUMBER: 60/281,353
PRIOR APPLICATION NUMBER: 60/281,353
PRIOR APPLICATION NUMBER: 60/281,353
PRIOR PELING DATE: 2000-04-03

PRIOR PELING DATE: 2000-04-28

PRIOR FILING DATE: 2000-04-28

NUMBER OF SEQ ID NOS: 10

SOFTWARE: PatentIn Ver: 2.1
                                                                                                                                                                                             CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                   GACTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                     661 GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                       GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                        721 GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                             CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                            ATACATTTTATTTATGTCAGTTTATTAATAGGATTTATTATAGAAAATTATCTGATG
                                                                                                       541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                            CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901 CCTATGTAACTTCCATTACCATAACCATACTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                             601
                                                                                                                                                                                                                                               661
                                                                                                                                                                                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  841
                                   481
                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             961
                                                                셤
                                                                                                                                 g
                                                                                                                                                                          δ
                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                             ઠે
                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                              Ē
                                                                                                                                                                                                                                                                                         Sequence 9, Application US/09354243B
Patent No. 6359117
GENERAL INFORMATION:
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: ISOJated Nucleic Acid Molecules which Encode T Cell Inducible F
TITLE OF INVENTION: (TIFS)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.1
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US(09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US(09/178,973)
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
901 CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATTATAAGT 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTCCAACTTCCAGCCAGCCGTACATCGTCAACCCCACTTTATGCTGGCCAAGGAGGCCAG
                                                                                                     TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTCTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTGCAGATAACACACAGACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121 rececreredesecceaseseaaarececreceareaeaceceareaeacerecaseer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 100.0%; Score 1111; DB 3; Length 1111; Best Local Similarity 100.0%; Pred. No. 3.4e-274; Matches 1111; Conservative 0; Mismatches 0; Indels 0;
                                                                                                                                                                        1081 TAGGCTTTAATAACACATGAATATCATAAA 1111
                                                                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; FEATURE:
US-09-354-243B-9
                                                                                                                                                                                                                                                                 RESULT 3
US-09-354-243B-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 1111
                                                                                                    1021
                                                                                                                                       1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             361
                                 961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE
                                                                                                                               셤
                               ઠે
                                                         음 &
                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
```

```
ATACATTTTATTTTATCTCAGTTTTATTAATATGGATTTATTATATAGAAACATTATCTGCTA 1045
                                                                    TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCŢ 1080
ATACATTITATTTATGICAGITTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCCCTGTGGGCCAAGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                    1 AACAGGCTCTCCTCAGTTATCAACTTTTGACACTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 94.4%; Score 1048.4; DB 3; Length 1050; Best Local Similarity 99.9%; Pred. No. 3.5e-258; Matches 1049; Conservative 0; Mismatches 1; Indels 0;
                                                                                                                                                           1105 TAGGCTTTAATAAACACATGGATATCATAAA 1135
                                                                                                                                         1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                      APPLICANT: FIEBHELL, COULT.
APPLICANT: Kindevogel, Wayne
APPLICANT: Kindevogel, Wayne
APPLICANT: Chen, Zhi
ITLE OF INVENTION: Mouse Cytokine Receptor
FILE REFERENCE: 01-08
CURRENT APPLICATION NUMBER: US/10/090,365
CURRENT FILING DATE: 2002-03-04
PRIOR APPLICATION NUMBER: US 60/273,035
PRIOR PILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-03
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FABLEQ for Windows Version 3.0
SEQ ID NO 40
LENGTH: 1050
                                                                                                                                                                                                                                                              ; Sequence 40, Application US/10090365; Patent No. 6875845
                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
; APPLICANT: Presnell, Scott R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40
   961
                                    986
                                                                      1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                           g
                                                                    Š
                                                                                               임
                                                                                                                                ò
                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               326 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAATGCTTGCGTCTGAGCGAGAAGAAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG 625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACTITITIACTAAAGGAAAGTGAGAGCTAACGTCCACCATCATTAGAAGAITTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       746 GAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGATAACCACAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCTCATTCCTCTAGAAAAAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  145
                                                                                                                                                                                                                                                                                                                                     205
                                                                                                                                                                                                                                                                                                                                                                                           GTCCAACTTCCAGCAGCCATACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 265
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACTCAGCAATCAGCTCCAGCTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGAGTCAAAGCGAT 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTAGAAAACGAAGAACTGCTCCTTCCTCCTTCTAAAAAGAACAATAAGATCCCTGAATG 685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTATTAGAAGATTTCACAT 745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
                                                                                                                                                                                                                              TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTTGCAGATAACAACACACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTGTTCCTGACCAA 420
                                                                                                                                                           9
                                                                                                                                                                                           85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                recerrereseceaseseaarsesersecesteaacaceseseseser
                                                                                                                                                           1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                               AACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                       GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCT
                                                                                                                          Gaps
                                                                                        Length 1166;
                                                                                                                          ä
                                                                                                                       31; Indels
                                                                                        DB 3;
                                                                                      Score 1049.4; DB Pred. No. 2e-258; 0; Mismatches 3:
                                                                                      Query Match
Best Local Similarity 97.1%;
Matches 1079; Conservative
                   ; TYPE: DNA
; ORGANISM: Murine
US-10-084-298-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      989
                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              841
                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                     146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  901
                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                98
                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                        206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
```

8 6 8 6

8 8 8

6 6 6 6 6

g

셤 જે 8 6

à

8 6 8 6 8 6 8

q ઠ 음 장

```
TTGATATTTGAGTATAAAGCAAATAATATTATGATAATAACTATAGAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1081
                                                                                                                                                                                                                                                                                  480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                      180
                                                                          182
                                                                                                 240
                                                                                                                        242
                                                                                                                                              300
                                                                                                                                                          CCTTGCAGATAACAACACAGAGGCCCGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 302
                                                                                                                                                                                         360
                                                                                                                                                                                                                362
                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                          422
                                                                                                                                                                                                                                                                                                       482
                                                                                                                                                                                                                                                                                                                             540
                                                                                                                                                                                                                                                                                                                                                    542
                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                              602
                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                           662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       962
           120
                                                                                                                                                                                                                                                                                                                            723 GAAACCTGGCTCAGTTGAAAAAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      783 CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841 AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAG
          183 GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                  GCTCCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                  ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                               ACTCAGCAATCAGCTCCAGTCACTCAGCGGGGGGACGACGACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                        541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                     543 TGGGGAACTGGACCTGCTGTTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                      CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                               603 CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             663 GACTITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATITCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1023 TIGATATITI-AGTATAAGGCAAATAATATITATGACAATAACTATGGAAACAAGATATCT
                                                      TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGGTTGAGGT
                                                                   GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                              CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                           TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                    303 TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                      361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITATGTAACTTCATATCCATATCCAATATTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      243
                                                                                                                                                                                                                                                           363
                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1021
                                                      121
                                                                                                  181
                                                                                                                                              241
                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                  421
                                                                                                                                                                                                                                                                                                       423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781
                           셤
                                                                      g
                                                                                                                    g
                                                                                                                                                             ద
                                                                                                                                                                                         Š
                                                                                                                                                                                                              유
                                                                                                                                                                                                                                ठे
                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                쉱
                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                      8
                                                                                               8
                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
           ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Squence 7, Application US/09178973B
Squence 7, Application US/09178973B
Patent No. 6274710
GENERAL INFORMATION:
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
TITLE OF INVENTION: (TIRB)
CURRENT APPLICANTON NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                                                                                                                                           ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                        900
                                                                                       900
                                                                                                                                                                                                                                      840
                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                               960
                      480
                                                                 540
                                                                                                             900
                                                                                                                                   9
                                                                                                                                                         99
                                                                                                                                                                                720
                                                                                                                                                                                                    720
                                                                                                                                                                                                                            780
                                                                                                                                                                                                                                                                                                                   AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAG 900
                                                                                                                                                                                                                                                                                                                                                                                      960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  62
                                                                                     ACTCAGCAATCAGCTCCTGTCACACATCAGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                  CTAGABABACGAAGAACTGCTCCTTCCTGCCTTCTABABAAGAACAATAAGATCCCTGAATG
                                                                                                                                               CTAGAAAAACGAAGAAGAACTGCTTCCTGCCTTCTAAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                           GACTITITIACTAAAGGAAAGTGAGAAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                  CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA
                                                                                                                                                                                                                                                                                                                                AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                      CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACTCAGCAATCAGCTCCAGCTCCTGTCACATCGTGGTGACGACCAGAACATCCAGAAGAA
                                            TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                               GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                            GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 1047.8; DB 3;
Pred. No. 5.1e-258;
0; Mismatches 32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TIGATATITGAGTATAAAGCAAATAATAT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.3%;
illarity 97.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
Matches 1078; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6
US-09-178-973B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Mu
US-09-178-973B-7
                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1021
421
                     421
                                           481
                                                                481
                                                                                       541
                                                                                                                                  109
                                                                                                                                                       601
                                                                                                                                                                              199
                                                                                                                                                                                                    661
                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                               901
                                                                                                                                                                                                                                                                                                                                                                                     901
              g
                                                         중 음
                                                                                                       a
                                                                                                                                                                       8 6 8 6
                                                                                                                                                                                                                                                                    ठ व ठ
                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                             8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                          ઠે
                                                                                                                          8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
ò
```

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: 180lated Nucleic Acid Molecules which Encode T Cell Inducible Fa
TITLE OF INVENTION: (TIF8)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                  TIGATATITIGAGIATAAAGCAAATAATATITIATGATAATAACTATAGAAACAAGATAICT 1080
                                                                                                                                                                                                                                                                                                                                                             ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             182
                                                                                                                                              840
                                                                                                                                                                                                                                       843 ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAG 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
                                                                     780
                                                                                                       782
                                                                                                                                                                                842
                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                       CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATAAGT 960
                                                                                                                                                                                                                                                                                                          CITAIGIAACTICATTICCATAICCAATAITITIATATATATATAGAGTITATTATATAAGT 962
720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              62
                                                                                                                                                                 GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AACAGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT
                                                                                                     GAAACCTGGCTCAGTTGAAAAAAAAAATAGTGTCTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                            CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                  AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                  GACTITITIACIAAAGGAAAGTGAGAAGCIAACGICCACCATCAITAGAAGAITITCACAI
                                                                       GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 1047.8; DB 3; Length 1119;
Pred. No. 5.1e-258;
0; Mismatches 32; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TAGGCTTTAATAAACACATGGATATCATAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAGGCTTTAATAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-354-243B-7; Sequence 7, Application US/09354243B; Patent No. 6359117; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.3%;
ilarity 97.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
Matches 1078; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; FEATURE:
US-09-354-243B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1081
                                                                         721
                                                                                                           723
                                                                                                                                              781
                                                                                                                                                                                  783
                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                             903
                                                                                                                                                                                                                                                                                                                                                                 961
                                                                                                                                                                                                                                                                                                                                                                                                    963
                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ო
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               123
 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                          유
                                                                       ò
                                                                                                 요
                                                                                                                                              ò
                                                                                                                                                                          셤
                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                      APPLICANT: Dumoutier, Laure
APPLICANT: Loubled, Jamila
APPLICANT: Loubled, Jamila
APPLICANT: Loubled, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIF6) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIF6) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (1954).243
CURRENT APPLICATION NUMBER: US09/354,243
PRIOR APPLICATION NUMBER: US09/354,243
PRIOR FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGCCCTGTGGGCCCAGGAGGCCAAATGCGCTGCCCATCAACACCCGGTGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTCCCCCAGTCAGACAGGTTCCAGCCCTACAFGCAGGAGGTGGTACCTTTCCTGACCAA 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            543 TGGGGAACTGGACTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGCGAGAAGAAG 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               recertereseceaseseaarecerteceseracaeecesereaaeeceaeereaaeer 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGTCAGAAGGCTGAAGGACACTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGAGGAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 1047.8; DB 3; Length
Pred. No. 5.1e-258;
0; Mismatches 32; Indels
                                     Sequence 7, Application US/09419568F Patent No. 6331613 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           94.3%;
97.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 97.0
Matches 1078; Conservative
                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                  LENGIH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-419-568F-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
```

ð g ઠે 8 S 8 6 8 6

음 상 음

8 8 8

셤 8 a Š 셤 ò Fact

T Cell Inducible

which Encode

Molecules

Uses Thereof

and

Length 5935;

musculus

```
TITLE OF INVENTION: Isolated Nucleic Acid Mol; TITLE OF INVENTION: (TIFE); TITLE OF INVENTION: (TIFE); TITLE OF INVENTION: The Proteins Encoded, and FILE REPERENCE: LUD 54.43; CURRENT APPLICATION NUMBER: US/09/178,973B; CURRENT FILING DATE: 1998-10-26; NUMBER OF SEQ ID NOS: 17; SEQ ID NO 17; LENGTHU.
                                                                                                TYPE: DNA
ORGANISM: Mus
                                                                                                                  US-09-178-973B-17
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                        음
                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                   242
                                                                                        360
                                                                                                 TGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 362
                                                                                                                           420
                                                                                                                                   480
                                                                                                                                                                                482
                                                                                                                                                                                                 540
                                                                                                                                                                                                                  542
                                                                                                                                                                                                                                    900
                                                                                                                                                                                                                                                                        999
                                                                                                                                                                                                                                                                                                          720
                                                                                                                                                                                                                                                                                                                                              780
                                                                                                                                                                                                                                                                                                                                                                                 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                       960
                                                                     302
                                                                                                                                                                                                                                                     602
                                                                                                                                                                                                                                                                                          662
                                                                                                                                                                                                                                                                                                                           722
                                                                                                                                                                                                                                                                                                                                                     842
                                                                                                                                                                                                                                                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                     902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        962
                CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                       CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                  CTAGAAAACGAAGAAGTGCTCCTTCCTGCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                    GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                          CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAG
                                                                                       TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                         GCTCCCCCAGTCCAGACTTCCGGCCCTACATGCAGGAGGTGGTGCTTTCCTGACCAA
                                                                                                                                                             ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                TGTCAGAAGGCTGAAGGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                           CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                              TGGGGAACTGGACTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAAGAAG
                                                                                                                                                                                                                                                                                                          GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                            GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                   AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCTTCTTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAGGCTTTAATAAACACATGGATATCATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1023
                                   183
                                                                     243
                                                                                                                          361
                                                                                                                                                             121
                                                                                                                                                                              423
                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                     543
                                                                                                                                                                                                                                                                                         603
                                                                                                                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                                                                                                                     843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1082
                  181
                                                     241
                                                                                       301
                                                                                                        303
                                                                                                                                           363
                                                                                                                                                                                                481
                                                                                                                                                                                                                 483
                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                                                                                                          663
                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                             723
                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                 783
                                                                                                                                                                                                                                                                                                                                                                                                                                                      901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                  8 6 8 6
                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                    셤
                                                                                 ያ ያ
                                                                                                                   ⋧
                                                                                                                                     셤
                                                                                                                                                            ò
                                                                                                                                                                         요
                                                                                                                                                                                         ઠે
                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                  중 음
                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
```

```
Sequence 29, Application US/09419568F
Patent No. 6331613
Patent INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Remaild, Jean-Christophe
TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1047
                                                                                                                                                                                                                  5340
                                                                                                                                                                                                                                                                                                                                                                                         5460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5760
                                                                                                                              5280
                                                                                                                                                                                                                                                                                                     5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5581 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5641 TACTITATATATATGTAAGTITTATITATAAGTATACAFITITATITATGTCAGTITATTA 5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5820
                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            987
                                                                                    567
                                                                                                                                                                        627
                                                                                                                                                                                                                                                          687
                                                                                                                                                                                                                                                                                                                                               747
                                                                                                                                                                                                                                                                                                                                                                                                                                   807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       927
                                                                                                                                                                                                                                                                                       5461 TAGTGTCAAGTTGTCCATGAGACCAGGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5521 ATATTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATATGGATTTATTTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5221 ATAGCTIGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGACTGGAACCTGCTGTTTATGTC
                                                                                                                                                                                                   5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                             GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                   748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TACTITATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1048 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACACATGAATATCA
                                                                                    508 AAAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                        ö
                                          Indels
Query Match 54.2%; Score 602.4; DB 3; Best Local Similarity 99.8%; Pred. No. 1e-143; Matches 603; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1108 TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 10
US-09-419-568F-29
                                                                                                                                                                                                                                                             628
                                                                                                                                                                                                                                                                                                                                                 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5821
```

Sequence 17, Application US/09178973B
Patent No. 6274710
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila

RESULT 9 US-09-178-973B-17

Φ

```
Sequence 8, Application US/09178973B
Sequence 8, Application US/09178973B
Patent No. 6274710
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louded, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
                                                                                                                                                                                                                                                                                                                                                                                                       GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      988 ATATGGATTTATTAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5701 ATATGGATTTATTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGGAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGAGGTTACCTCTCATTCCTCTAGAAGAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TACTITIATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                            GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                        5221 ATAGCTTGGAGAGAGAGAGAGAGAGAGAACAGGGAACTGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                      508 AAAGCTTGGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                             Length 5935;
             Uses Thereof
                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                       ; Pred. No. 16-143; 10; Mismatches 1: 7.
TITLE OF INVENTION: (TIFs);
TITLE OF INVENTION: The Proteins Encoded, and Use;
FILE REPRENCE: LUD 5543.1
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
LENGTH: 5935
                                                                                                                                                                                                                54.2%;
                                                                                                                                                                                                                              Best Local Similarity 99.8
Matches 603; Conservative
                                                                                                                                          TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1108 TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAAA 5824
                                                                                                                                                                      ; FEATURE:
US-09-354-243B-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
US-09-178-973B-8
                                                                                                                                                                                                                                                                                                                                268
                                                                                                                                                                                                                                                                                                                                                                                                                   5341
                                                                                                                                                                                                                                                                                                                                                            5281
                                                                                                                                                                                                                                                                                                                                                                                        628
                                                                                                                                                                                                                                                                                                                                                                                                                                               688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           928
                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 11
US-09-154-2418-29
Sequence 29, Application US/09354243B
Patent No. 6359117
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible E
                                                                                                                                                                                                                                                                                                                                                            5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5641 TACTITATATATGTAAGTITATTTATTATAAGTATACATTTTATTTATGTCAGTTTATTA 5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATATGGATTTATTAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 1107
                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    927
                                                                                                                                                                                                                                                                                                                                627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       807
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATATGGATTTATTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       808 ATATITIATIGICATIGATAATGCAACAGAAAAAGTATGTACTITAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TACTTTATATATATGTAAGTTTATTATATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                       521 ATAGCTTGGAGAGAGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                        GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                 Length 5935;
                                                                                                                                                                                                                Score 602.4; DB 3; Length Pred. No. 1e-143; 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                           508 AAAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAA
  FILE REFERENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/09/419,568F
GURRENT FILING DATE: 1999-10-18
FRIOR APPLICATION NUMBER: US09/354,243
FRIOR FILING DATE: 1999-07-16
FRIOR FILING DATE: 1999-10-26
NUMBER: US09/178,973
NUMBER: US09/178,973
SEQ ID NOS: 29
SEQ ID NOS: 29
LENGTH: 5935
                                                                                                                                                                                                                   54.2%;
                                                                                                                                                                                                                                 al Similarity 99.8
603; Conservative
                                                                                                                                               TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAAA 5824
                                                                                                                                                                                          US-09-419-568F-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5821
                                                                                                                                                                                                                                                                                                                                                                                                                     5341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5521
                                                                                                                                                                                                                                                                                                                                    268
                                                                                                                                                                                                                                                                                                                                                                                                                                                  688
                                                                                                                                                                                                                                                                                                                                                                                           628
                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                   Local
                                                                                                                                                                           FEATURE
                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                  8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                   ò
```

5520

807

747

867

5340

687

627

5280

267

ö

5640

5580

927

5700 1047

987

1107 5820

셤

ઠે

셤

ò

ò 셤 ò 셤

쉽

ò

셤

g

ઠ

셤

ð

g

δ

유 ò 셤

ઠે

ઠે

```
Sequence 8, Application US/09354243B

Patent No. 6350117

GENERAL INFORMATION:
APPLICANT: Dumoutler, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Igeolated Nucleic Acid Molecules which Encode T Cell Inducible Far
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATATGGATTTATATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7074 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATA 7133
                                                                                                                                                                                                                                                                           ä
                                                                                                                                                                                                                                                                                                                                              6594
                                                                                                                                                                                                                                                                                                                                                                                                                     6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5895 AGGAGGTTACCTCTTTACAAAAAAAGCTTATGTAACTTCATTTCCATATCCAA 6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1048 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACACGATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6715 GCTAACGTCCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAAA 6774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        987
                                                                                                                                                                                                                                                                                                             567
                                                                                                                                                                                                                                                                                                                                                                                  627
                                                                                                                                                                                                                                                                                                                                                                                                                                                         687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TATTTTATATATGTAAGTTTTATTATTATTATAAGTATACATTTTTATTATTATTATTATTA
                                                                                                                                                                                                                                                                                                                                     6655 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       568 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGCTAGAAAAAGGAAGAACTGCTTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATATTTTATTGTCATTGATATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGAGGTTACCTCTCATTCCTCTAGAAAAGCCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                                                              508 AAAGCTTGGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGT
                                                                                                                                                                                                                                         Length 7445;
                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                       50.0%; Score 555.2; DB 3; 96.0%; Pred. No. 1.3e-131; ive 0; Mismatches 23;
; CURRENT FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: US99/354,243
; PRIOR FILING DATE: 1999-07-16
; PRIOR APPLICATION NUMBER: US09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 8
; LENGTH: 7445
                                                                                                                                                                                                                                                        Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                                                                                  musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7134 TAAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1108 TAAA 1111
                                                                                                                                                 TYPE: DNA ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 14
US-09-354-243B-8
                                                                                                                                                                                                      US-09-419-568F-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                           628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                886
                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                       FEATURE
                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 13
US-09-419-568F-8
Sequence 8, Application US/09419568F
Patent No. 6311613
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
TITLE OF INVENTION: ISolated Nucleic Acid Molecules which Encode T Cell Inducible F
TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof
PILE REFERENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/09/419,568F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1107
                                                                                                                                                                                                                                                                                                                               6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGGAAATAAT 7073
                                                                                                                                                                                                                                                                                              567
                                                                                                                                                                                                                                                                                                                                                                                                                                          687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           867
                                                                                                                                                                                                                                                                                                                                                                   627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        987
                                                                                                                                                                                                                                                                                                                ATAGCTTGGAGAGAGTGGAGAGAGTCAAGGCGATTGGGGAAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6895 AGGAGGTTACCTCTCTTTAGAAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                      GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TACTITIATATATGTAAGTTTATTATAAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA
                                                                                                                                                                                                                                                                                                                                                                   AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATGGATTTATTTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                              508 AAAGCTTGGAGAGAGAGGAGAGTCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                          ï
                                                                                                                                                                                                                   Ouery Match 50.0%; Score 555.2; DB 3; Length 7445; Best Local Similarity 96.0%; Pred. No. 1.3e-131; Matches 580; Conservative 0; Mismatches 23; Indels 1;
                        Uses
 TITLE OF INVENTION: (TIFs)
TITLE OF INVENTION: The Proteins Encoded,
FILE REPRENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
SEQ ID NO
                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAA 7137
                                                                                                                               LENGTH: 7445
                                                                                                                                                                                   US-09-178-973B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7015
                                                                                                                                                                                                                                                                                                                               6535
                                                                                                                                                                                                                                                                                                                                                                   268
                                                                                                                                                                                                                                                                                                                                                                                                      6595
                                                                                                                                                                                                                                                                                                                                                                                                                                          628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               988
```

```
AACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAA--GTTGTCCATGAGACCAG-AGGTAG 779
TITLE OF INVENTION: Disorders
FILE REFERENCE: GIS358 CIP
CURRENT APPLICATION NUMBER: US/10/084,298
CURRENT FILING DATE: 2002-09-10
FRIOR APPLICATION NUMBER: 60/270,823
FRIOR FILING DATE: 2001-02-23
FRIOR FILING DATE: 2001-04-03
FRIOR APPLICATION NUMBER: 60/131,473
FRIOR FILING DATE: 2001-04-03
FRIOR FILING DATE: 2000-04-28
FRIOR FILING DATE: 2000-04-28
FRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PATENTIN OF: 2.1
SEQ ID NO 1
SEQ ID NO 1
                                                                                                                                                                                                 ; ORGANISM: Homo sapiens
US-10-084-298-1
                                                                                                                                                                                                                                                                               7
                                                                                                                                                                                                                                                                                                    28
                                                                                                                                                                                                                                                                                                                          67
                                                                                                                                                                                                                                                                                                                                               88
                                                                                                                                                                                                                                                                                                                                                                      127
                                                                                                                                                                                                                                                                                                                                                                                            148
                                                                                                                                                                                                                                                                                                                                                                                                                 187
                                                                                                                                                                                                                                                                                                                                                                                                                                       208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          723
                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                           쉱
                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATGGATTTATTTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                             GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA 6714
                                                                                                                                                                                                                                                                                                                                                           6715 GCTAACGTCCATCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAAA 6774
                                                                                                                                                                                                                                               627
                                                                                                                                                                                                                                                                                           687
                                                                                                                                                                                                                                                                                                                                                                                                                            ATAITITIATICICATIGATAATGCAACAGAAAAGTATGTACTITAAAAAATTGTTTGAA 867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGAGGTTACCTCTCATTCCTCTAGAAAAAAGCCTATGTAACTTCATTTCCATAACCAA 927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TACTITATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA 987
                                                                                                                                                                                                                   GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                     508 AAAGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAAACTGGAACTGCTGTTTATGTC
                                                                                                                                                                                                                                               GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1, Application US/10084298
Patent No. 6939545
GENERAL INFORMATION:
APPLICANT: Jacobs, Kenneth
APPLICANT: Fouser, Lynette
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Xuan, Dejun
TITLE OF INVENTION: Composition and Method for Treating Inflammatory
                                                                                                                                                                             1;
                                                                                                                                                       Length 7445;
                                                                                                                                                                             Indels
                                                                                                                                                                              23;
                                                                                                                                                        DB 3;
                                                                                                                                                        Score 555.2; DB 3
Pred. No. 1.3e-131
0; Mismatches 23
      FILE REFERENCE: LUD 5543.1
CURRENT PEPLICATION NUMBER: US/09/354,243B
CURRENT FILLING DATE: 1990-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILLING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 8
                                                                                                                                                        50.0%;
                                                                                                                                                       Query Match 50.0
Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                 TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAA 7137
                                                                                      LENGTH: 7445
                                                                                                                                  JS-09-354-243B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-084-298-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1108
                                                                                                                                                                                                                          6535
                                                                                                                                                                                                                                                                     6595
                                                                                                                                                                                                                                                                                                                 6655
                                                                                                                                                                                                                                                                                                                                                                                                                                                  6835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7134
                                                                                                                                                                                                                                                                                                                                                                                  748
                                                                                                                                                                                                                                                                                                                                                                                                       6775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     928
                                                                                                                                                                                                                                                568
                                                                                                                                                                                                                                                                                            628
                                                                                                                                                                                                                                                                                                                                       688
                                                                                                                                                                                                                                                                                                                                                                                                                             808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                              q
                                                                                                                                                                                                                                                                                   8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                           8686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                               ò
```

```
999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        722
                                                     10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    747
                                                                                                                                                                                                                                                                                                                                                                               246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      247 AGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAGTGCTAA 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   307 GGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCTGCTCCC 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           447
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAATGTCAG 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              627
                                                                                                                                                                                           126
                                                                                                                                                                                                                                       147
                                                                                                                                                                                                                                                                                     186
                                                                                                                                                                                                                                                                                                                                                                                                                             267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   387
                                                                                                                                                                                                                                                                                                                                crregracadegadegadergececcarcaecreceardegerecaegerreacaagrecaa 207
                                                                                                                                          87
                                                                                                                                                                                                                                                                                                                                                                                                                   CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 268 TGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGAGTCAGTATGAG
                                                                                                                                                                                                                                                                                                                                                                               CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 367 CCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTTA----CTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       caacagechaageacargrearárrgaagergargacergeararceagaggaargreca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGAGGAAGAAGCTAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AACGAAGAACTGCTCCTTCCTCTAAAAAGAACAATAAGATCCCTGAATGGACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        aarcaaraacccccrrrcccractagaaraacaarragargccccaaaccarrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTTAACCAAAAGGAAGATGGGAAGCCAAACTCCATCATGATGGGTGGATTCCAAATGA
                                                                                                                                                                                                                        487 AAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGAGTCAAAGCGATCGGGGA
                                                                                                                                               CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                           GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                              CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                     Gaps
                                                   36;
    Length 1191;
                                                   Indels
Query Match
47.6%; Score 529; DB 3; La
Best Local Similarity 72.7%; Pred. No. 2.9e-125;
Matches 830; Conservative 0; Mismatches 275;
```

Search completed: December 20, 2005, 21:40:47 Job time : 128.756 secs

THIS PAGE BLANK (USPTO)

Juis Page Blank (uspro)

```
Appli
Appli
Appli
Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Appl
                                                                                                                                                                                                           (without alignments)
16534.837 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9, Ap. Sequence 3, Ap. Sequence 3, Ap. Sequence 3, Ap. Sequence 3, Ap. Sequence 40, A. Sequence 40, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 29, Sequence 29, Sequence 8, Al Sequence 1, Sequence 1, Sequence 1, Sequence 1, Sequence 1, Al
                                                                                                                                                                        December 20, 2005, 13:17:16 ; Search time 555.632 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 7, Al
Sequence 37, 1
Sequence 37, 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 40,
                                                                                                                                                                                                                                                                                                                                                           1 aacaggctctcctctcagtt......aaacacatgaatatcataaa 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 7,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 9,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 10
Sequence 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /cgn2_6/ptodata/1/pubpia/US07_puBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US08_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US08_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US09B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
    /cgn2_6/ptodata/1/pubpia/US10B_PUBCOMB.seq:*
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 3 US-09-751-79-9

1 7 US-10-627-273-9

5 US-10-0864-298-3

6 US-10-0864-298-3

8 US-10-0864-297-3

10 US-11-157-387-3

10 US-11-157-387-3

10 US-11-157-387-3

10 US-10-0804-837-3

10 US-10-807-837-10

10 US-10-807-837-37

10 US-10-807-837-37

10 US-10-807-837-37

10 US-10-807-837-37

10 US-10-806-294-37

10 US-10-806-294-37

10 US-10-806-294-37

10 US-10-806-294-37

10 US-10-807-23

10 US-10-807-23

10 US-10-807-23

10 US-10-807-23

10 US-10-807-23

10 US-10-807-23

10 US-10-807-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Total number of hits satisfying chosen parameters
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Published_Applications_NA_Main:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9793542 seqs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-084-298-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                   - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                   IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                B
                                                                                                                                                                                                                                                                                                  US-09-751-797-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                         Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1049.4
1049.4
1049.4
1049.4
1048.4
1048.4
1048.4
1047.8
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.2
757.
                                                                                                                                                                                                                                                                                                                               Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                      Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score
                                                                                                                   OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Database :
                                                                                                                                                                                                                                                                                                                                                                 Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Searched:
                                                                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
```

44444444444444444
47.6 1191 47.6 1191 47.3 1152 47.3 1152

```
Sequence 9, Application US/09751797;
Sequence 9, Application US/09751797;
Patent No. US20010024662A1
GENERAL INFORMATION:
GENERAL INFORMATION:
THEORY ID DECEMBER OF THE SEQUENCE OF THE SET OF INVENTION: LOUGH Jean-Christophe
TITLE OF INVENTION: LOUGH Jean-Christophe
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (VAPER: US/09/751, 797
CURRENT APPLICATION NUMBER: US/09/751, 797
CURRENT PILING DATE: 1999-10-12-29
FRIOR APPLICATION NUMBER: US/09/178, 973
FRIOR FILING DATE: 1999-10-18
FRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.0%; Score 1111; DB 3; Best Local Similarity 100.0%; Pred. No. 7.4e-229; Matches 1111; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                   LENGIH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                        US-09-751-797-9
US-09-751-797-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
```

8 6 8 6

8 6 8

ò

6 6 6 6 6 6

ОD

8 6

8 8 8

셤

상 점

셤 ઠે

ò

```
540
                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              840
                                                                                                                                                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        840
                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                                                                   TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                  300
                                                                                                                                                                                                                                                                                                                                                                                                                                        300
                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                   CCTTGCAGATAACAACAACAGAGGTCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                        CGGGGAACTGGACCTGCTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTAGAAAAAGGAAGAAGAACTGCTTCCTTGCTTCTAAAAAGAAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           301 IGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGCGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTCAGAAGGCTGAAGGAGACAGTGAAAAGCTTGGAGAGAGGAGGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACTITITIACIDAAGGAAAGTGAGAAGCIDAACGTCCACCATCATTAGAAGATITCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                   1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                  TGCCCTGTGGGCCCAGGGGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                       AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                               ö
                                                                                                                                                                         Length 1111;
                                                                                                                                                                                               Indels
                                                                                                                                                                         Score 1111; DB 7;
Pred. No. 7.4e-229;
0; Mismatches 0;
100.0%;
100.0%;
                                                                                                                                                                        Query Match
Best Local Similarity 100.
Matches 1111; Conservative
                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                  US-10-627-273-9
                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                             121
                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                781
                                                                                                                                        FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                         ద
                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 B
                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 5, Application US/10627273
Publication No. US20040110189A1
GENERAL INFORMATION
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
FILE REPRENCE: Lub 5543.
CURRENT APPLICANT: 2003-07-25
CURRENT FILING DATE: 2003-07-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                     999
                                                                                                                                                                                                                                                                                                          99
                                                                                                                                                                                                                                                                                                                                   720
                                                                                                                                                                                                                                                                                                                                             GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                                GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
                                                                                                                                                                                                                                                                                                                                                                                                                                840
                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     960
                                         360
                                                                                                      GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                       480
                                                                                                                                                  540
                                                                                                                                                                                                                                     600
                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                  TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                   GACTTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCCATTCCTCTAGAAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u> AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAG</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                                                     CTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                       GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTTCCTGACCAA
                                                                                                                                        ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                       TGTCAGAAGGCTGAAGGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                      CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 2
US-10-627-273-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              961
                                                                 301
                                                                                                               361
                                                                                                                                        421
                                                                                                                                                               421
                                                                                                                                                                                                             481
                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                           661
                                                                                                                                                                                                                                                                                                                                                                                721
                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     901
                                          301
                                                                                          361
                                                                                                                                                                                       481
```

480

360 385 420 540

565

9

720

745 780 805

685

960

B 农 B 农 B 农 B 农

ઠ

```
986 ATACATTTTATTTATGCAGTTTATTAATATGGATTTATTATATAGAAACATTATCGCTA 1045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1046 TIGATATITI-AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCT 1104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       961 ATACATTTTATTTATGTCAGTTTATTAATATGGATTTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAA 865
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGTATGTACTTTAAAAAATTGTTTGAAAGGAGTTACCTCTCTTTCTCTCTAGAAAAA 900
                                                                                                                                                                                                                                                                                                                                                                       446 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA 505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            866 ATAÁTGTÁCTTTÁAAAAATTGTTTGAAAGGAGGTTACCTCTCTTTCCTTTAGAAAAAG 925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     926 CTTATGTAACTTCATTTCCATAACCAATATTTTATATATGTAAGTTTATTATTATAAGT 985
CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                 386 GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTGCTCCTTTCCTGACCAA 445
                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            746 GAAACCTGGCTCAGTTGAAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                 266 CCTTGCAGATAACAACAACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGGAGTCAG
                                                                                                                                       661 GACTTTTTACTAAAGGAAAGTGAAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTATTAGAAGATTTCACAT
                                                                                                         TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                     ACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                              TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTAGAAAACGAAGAACTGCTCCTTCCTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTATGTAACTTCCATTACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021 TIGATATITIGAGTATAAAGCAAATAATATITATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-256-977-3

US-10-256-977-3

Sequence 3, Application US/10256977

Sequence 3, Application No. US20030157106A1

GENERAL INFORMATION:

APPLICANT: Pittman, Debra

APPLICANT: Spaulding, Vikki

APPLICANT: Spaulding, Vikki

APPLICANT: Spaulding, Vikki

TITLE OF INVENTION: Composition and Method for Treating Inflammatory

TITLE OF INVENTION: Disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1105 TAGGCTTTAATAAACACATGGATATCATAAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721 (
  241
                                                                                                      301
                                                                                                                                                          326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   901
                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                         셤
                                                                                                      Š
                                                                                                                                             셤
                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                   TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        is Sequence 3, Application US/10084298

publication No. US2030099649A1

GENERAL INFORMATION:

APPLICANT: Jacobs, Kenneth

APPLICANT: Pittman, Debra

APPLICANT: Spaulding, Vikki

APPLICANT: Spaulding, Vikki

APPLICANT: Spaulding, Vikki

TITLE OF INVENTION: Composition and Method for Treating Inflammatory

TITLE OF INVENTION: Depra

TITLE OF INV
                                                               841 AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG
                                                                                                                                                        GCAGABARCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTGTCTCAT
                                                                                                                                                                                                                                        ATACATITITATITIATGTCAGTTTATTAATATGGATTTATTATAGAAAATTATCTGATG
                                                                                                                                                                                                                                                                                                                                                 TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      recerrendesecedadesecanantesecresecenteacedesecresecenteresecr
                                                                                                                                 CCTATGTAACTTCCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           94.5%; Score 1049.4; DB 5; Length 97.1%; Pred. No. 1.4e-215; ive 0; Mismatches 31; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                       TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 97.1
Matches 1079; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA
CRGANISM: Murine
US-10-084-298-3
                                                                                                                                                                                                                                                                                                                                              1021
                                                                                                                                                                                                                                                                                                                                                                                                   1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1081
                                                                                                                                                                                 901
                                                                                                                                                                                                                                     961
                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         56
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            206
                                                                                                                                 901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
```

원 장

엄 ò

ð

g

ò

985

925

```
TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                                                                                    961 ATACATTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                         ATACATTITATITATGTCAGTTTATTAATATGGATTTATTTATAGAAACATTATCGCTA 1045
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Li, Jing
APPLICANT: Tan, Xiang-Yang
APPLICANT: Tan, Xiang-Yang
APPLICANT: Tonkinanon, Kathleen N.
APPLICANT: Pittman, Debra D.
APPLICANT: Pittman, Geetrruida M.
APPLICANT: Pouser, Lynette
TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor
TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor
TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor
CURRENT FILING DATE: 2004-06-22
PRIOR PLILING DATE: 2003-06-23
PRIOR PLILING DATE: 2003-06-23
PRIOR PLILING DATE: 2003-02-25
PRIOR PLILING DATE: 2001-02-23
PRIOR PLILING DATE: 2001-02-23
PRIOR PLILING DATE: 2001-04-03
PRIOR PLILING DATE: 2001-04-03
PRIOR FILING DATE: 2001-04-03
NUMBER OF SEQ ID NOS: 10
SOFTWARE: Patentin version 3.1
SEQ ID NOS: 10
SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                              841 AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAG 900
                                                                                                                                                                                                                                                                                          1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26 AACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT
                                                                                                                                                                                                                           CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCATTGATAATGCAACAGAAAA
         GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match

94.5%; Score 1049.4; DB 8; Length 1166;
Best Local Similarity 97.1%; Pred. No. 1.4e-215;
Matches 1079; Conservative 0; Mismatches 31; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1105 raccerrraaraacacarcerraraaa 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 3, Application US/10873972; Publication No. US20050042220A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 1166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-873-972-3
                                                                                                                                                                                                                                                                                               106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1081
                                                                                                           781
                                                                                                                                                                                                                                                                                                                                           926
                                                                                                                                                                                                                                                                                                                                                                                                                                       986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                   셤
                                                                                                      8
                                                                                                                                               셤
                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GACTITITIACIAAAGGAAAGIGAGAAGCIAACGICCACCAICAIIAGAAGAITICACAI 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             86 GCAGABARTCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCCTCTCAT 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     146 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGGT 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTTGCAGATAACAACACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAAACTGTTCCGAGGAGTAACAG 325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           385
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              386 GCTCCCCCAGTCAGACTCCAGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACTCAGCAATCAGCTCCAGCTCCAGATCAGCGGTGACGACCAGAACATCCAGAAGAA 505
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   326 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GACTTTTTACTAAAGGAAAGTGAGAAGCTAACCTCCATCATTATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATGGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26 Aacadderererereadriancaacidingacacindidedarerereardderer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 6; Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 1049.4; DB 6; Length
Pred. No. 1.4e-215;
0; Mismatches 31; Indels
FILE REFERENCE: GI5358 CIP
CURRENT APPLICATION NUMBER: US/10/256,977
CURRENT FILING DATE: 2002-09-27
PRIOR APPLICATION NUMBER: US/10/084,298
PRIOR PILING DATE: 2002-09-10
PRIOR PLING DATE: 2001-02-23
PRIOR FILING DATE: 2001-02-23
PRIOR PILING DATE: 2001-04-03
PRIOR PILING DATE: 2001-04-03
PRIOR PILING DATE: 1999-04-28
PRIOR PILING DATE: 1999-04-28
PRIOR PILING DATE: 2000-04-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 97.1%;
Matches 1079; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                       , ORGANISM: Murine
US-10-256-977-3
                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 1166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   品 公 品 谷
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

120 145

9 85

Gaps

```
US-11-157-387-3
                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                          d
                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATACATTTTATTTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                       GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGGCCTTTCCTGACCAA 420
                                                                                                                                         480
                                                                                                                                                                                     505
                                                                                                                                                                                                       540
                                                                                                                                                                                                                         565
                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                   99
                                                                                                                                                                                                                                                                                               685
                                                                                                                                                                                                                                                                                                                GACTITITIACIDAAGGAAAGTGAGAAGCTAACGTCCACCATCATIAGAAGAITICACAT 720
                                                                                                                                                                                                                                                                                                                                  745
                                                                                                                                                                                                                                                                                                                                                    780
                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                           925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              985
                                                          CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300
                                                                                              TCCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                    802
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTATGTAACTTCCATTACCATAACCAATACTTTATATATGTAAGTTTATTATAAGT 960
                                                                                                                                                                                 ACTCAGCAATCAGCTCCAGCTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                            CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
TGCCCTGTGGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT
                                 GTCCAACTTCCAGCCACCATACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                       CTTGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                               GAAACCTGGCTCAGTTGAAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                  ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                      TGTCAGAAGGCTGAAGGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                          541 CGGGGAACTGGACCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                    GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                          AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       raggerrraaraacacarggararcaraa
                                                                                                               326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1046
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1105
                                         206
                                                          241
                                                                            266
                                                                                              301
                                                                                                                                 361
                                                                                                                                                  386
                                                                                                                                                                                     446
                                                                                                                                                                                                       481
                                                                                                                                                                                                                        206
                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                               199
                                                                                                                                                                                                                                                                                                                                 989
                                                                                                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                                                                                    746
                                                                                                                                                                                                                                                                                                                                                                                      781
                                                                                                                                                                                                                                                                                                                                                                                                        908
                                                                                                                                                                                                                                                                                                                                                                                                                          841
                                                                                                                                                                                                                                                                                                                                                                                                                                          998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              926
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1021
                         181
                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                            901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                961
                                   셤
                                                   8
                                                                       8 & 8
                                                                                                                          8 6 8 6
                                                                                                                                                                                                      8 8 8
                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                      g
                       ò
                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                                      원
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
```

385 480 145 180 205 240 265 300 266 CCTTGCAGATAACAACACAGATGTCCGGCTCATCGGGAGAAACTGTTCCGAGGAGTCAG 325 360 420 445 540 565 505 600 625 601 CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 660 85 Hericant: Jacobs, hemitech APPLICANT: Pittman, Debra APPLICANT: Pittman, Debra APPLICANT: Spaulding, Vikki APPLICANT: Spaulding, Vikki APPLICANT: Spaulding, Vikki APPLICANT: Number Disorders FILE REFERENCE: G1538 CIP FILE REFERENCE: G1538 CIP CURRENT FILING DATE: 2005-06-20 FRICA PILING DATE: 2002-09-10 PRICA PILING DATE: 2001-02-23 PRICA FILING DATE: 2001-04-03 PRICA PILING DATE: 2001-04-03 PRICA PILING DATE: 2001-04-03 PRICA PPLICATION NUMBER: 60/131,473 PRICA PLING DATE: 2000-04-08 PRICA PLING DATE: 2000-04-08 PRICA PLING DATE: 2000-04-28 FRICA PLING DATE: 2000-04-28 SOFTWARE: Patentin Ver. 2.1 SEQ ID NO 3 GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG 206 Grccaacriccagcagccaracarcgrcaaccgcaccrirargcrogccaagaggccag 326 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCT 386 GCTCCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 446 ACTCAGCAATCAGCTCACTCTCACACACACGAGGACGACGACAACAACAACAAAGAA 506 TGTCAGAAGGCTGAAGGAGAGAGAGAAAAAGCTTGGAGAGAGTGGAGAGATCAAGGCGAT 1 AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGCCTGTCCT 26 AACAGGCTCTCCTCTCAGTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCT 121 TGCCCTGTGGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 146 recerrereseceaseses de antrecerreces es recercas es recentras de constantes de constantes de la recentra de constantes de constantes de la recentra de constantes de la recentra de constantes de la recentra del recentra de la recentra de la recentra de la recentra de la recentra del recentra de la recentra del la recentra del la recentra de la recentra del la recentra de la recentra del la recentra de la CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 301 IGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 421 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG Query Match 94.5%; Score 1049.4; DB 10; Length 1166; Best Local Similarity 97.1%; Pred. No. 1.4e-215; Matches 1079; Conservative 0; Mismatches 31; Indels 1; ORGANISM: Murine ò g ò

> US-11-157-387-3 ; Sequence 3, Application US/11157387 ; Publication No. US20050238648A1 ; GENERAL INFORMATION:

유 à g

8 6 8 6 8 6

8 6 8 6

8 6 8

```
840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             960
                                                                                                                                                                                                                                                                              420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    960
                                                                                                                                                                                                   360
                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                            540
                                                                                                                                                                                                                                                                                                                                                                                     540
                                                                                                                                                                                                                                                                                                                                                                                                                 909
                                                                                                                                                                                                                                                                                                                                                                                                                                         600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   099
                                       180
                                                                180
                                                                                          240
                                                                                                                    240
                                                                                                                                                300
                                                                                                                                                                        300
                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                 GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTATGTAACTTCCATTACCATACCAATACTTTATATATGTAAGTTTTATTATAAGT
                                                                                                                                                                                                                                                                       CTAGAAAACGAAGAACTGCTTCCTTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GACTITITITACTAAAGGAAAGTGAAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  841 AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCAGAAAAAG
CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG
                                                                                                                                                             GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAAG
                                                                                                                                                                                                   TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                       GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TIGATATITGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 8
US-10-104-919-42
IS-10-104-919-42
; Sequence 42, Application US/10104919
; Publication No. US2003009608A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1021
                                                                                             181
                                                                                                                        181
                                                                                                                                                  241
                                                                                                                                                                             241
                                                                                                                                                                                                     301
                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                               481
                                                                                                                                                                                                                                                                                                                                                                                         481
                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 901
                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                         Š
                                                                   셤
                                                                                             à
                                                                                                                  셤
                                                                                                                                                 ò
                                                                                                                                                                           셤
                                                                                                                                                                                                    ò
                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                               ATACATITITATITATITACGETITATITAATATGGATITATITATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                      ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCAFTCCTTTAGAAAAAAG 925
                                                                                                                                                                                                                                                           960
                                                                                                                                                                                                                                                                          CITATGTAACTICATTICCATAACCAATATITIATATATATGTAAGTITATTATATAAGT 985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   802
                                                                                                                                                    840
                                                                                                                                                                  900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AACAGGCTCTCCTCTCTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
    GAAACCTGGCTCAGTTGAAAAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                  CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                       AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAG
                                                                                                GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                           CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                                           GACTITITITACTAAAGGAAAGTGAGAAGCTAAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 1048.4; DB 5; Length
Pred. No. 2.2e-215;
0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 40, Application US/10090365; Publication No. US20030077706A1
GENERAL INPORMATION:
APPLICANT: Presenell, Scott R.
APPLICANT: Ku, Wenfeng
APPLICANT: Ku, Wenfeng
APPLICANT: Kindevogel, Wayne
APPLICANT: Chen, Zhi
TITLE OF INVENTION: Mouse Cytokine Receptor
FILE REFERENCE: 01-08
CURRENT APPLICATION NUMBER: US/10/090,365
CURRENT FILING DATE: 2002-03-04
PRIOR FILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-03
                                                                                                                                                                                                                                                                                                                                                                                                                      TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 99.9%;
Matches 1049; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 7
US-10-090-365-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 1050
                                                                                                                                                                                                                                                                                                                                         986
                                                                                                                                                                                                                                                                                                                                                                                            1046
                                                                                                                                                                                                                                                                                                                                                                                                                      1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                1105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                   1021
                                                                       989
                                                                                                                        746
                                                                                                                                                     781
                                                                                                                                                                               806
                                                                                                                                                                                                                                  998
                                                                                                                                                                                                                                                                                     926
                                                                                                                                                                                                                                                                                                               196
                    626
                                             199
                                                                                                 721
                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                            901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE
```

d

ò

ò

```
961 ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATATAGAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                   900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180
                                                                                                  840
                                                                                                                                            840
                                                                                                                                                                                                                           900
                                                                                                                                                                                                                                                                       960
                                                           780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                          781 CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                            841 AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                                               121 TGCCCTGTGGGCCCAGGAGGAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT
                                                             721 GAAACCTGGCTCAGTTGAAAGAGAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                   841 AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCCATTCCTTAGAAGAAAAG
                                                                                                                                                                                                                                                                       1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                  CTTGATAACCACAAAGATTCATTGACAATATTTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL IN CHARATION:
GENERAL IN CHARATION:
APPLICANT: Kindsvogel, Wayne
APPLICANT: Kindsvogel, Wayne
APPLICANT: Chandraekher, Yasmin A.
APPLICANT: Dillon, Stacey R.
APPLICANT: Dillon, Stacey R.
APPLICANT: Siadak, Anthony W.
APPLICANT: Siadak, Anthony W.
APPLICANT: Siadak, Anthony W.
TITLE OF INVENTION: PARTNERS AND METHODS OF USING IN INFLAMMATION
TITLE OF INVENTION: PARTNERS AND METHODS OF USING IN INFLAMMATION
FILE REFERENCE: 03-02
CURRENT APPLICATION NUMBER: US/10/807,837
CURRENT FILING DATE: 2004-03-24
PRIOR FILING DATE: 2003-03-24
PRIOR FILING DATE: 2003-03-14
PRIOR FILING DATE: 2003-11-17
NUMBER OF SEQ ID NOS: 62
SOFTWARE: PASLEEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 8; Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 1048.4; DB 8;
Pred. No. 2.2e-215;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                              1021 TTGATATTTGAGTATAAAGCAAATAATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1021 TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 9
US-10-807-837-10
is Sequence 10, Application US/10807837
is Publication No. US20040209330A1
is GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 99.9%;
Matches 1049; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , LOCATION: (5)...(589)
US-10-807-837-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
NAME/KEY: CDS
                                                                                                       781
                     721
                                                                                                                                     ద
                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGTT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCTTGCAGATAACAACACACAGACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cesesaacresaccrecretrrarerereresasaarecrreceresasasaasa 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTAGAAAACGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  661 GACTITITIACIAAAGGAAAGTGAGAAGCIAACGTCCACCATCATIAGAAGATTTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCTCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTCCAACTTCCAGCCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTTGCAGATAACAAACACAGACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1050;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
94.4%; Score 1048.4; DB 5;
Best Local Similarity 99.9%; Pred. No. 2.2e-215;
Matches 1049; Conservative 0; Mismatches 1; 1
          APPLICANT: Xu, Wenfeng
APPLICANT: Kindsvogel, Wayne
APPLICANT: Chen, Zhi
APPLICANT: Chen, Zhi
APPLICANT: Hughes, Steven D.
TITLE OF INVENTION: Human Cytokine Receptor
FILE REFERENCE: 01-12
CURRENT APPLICATION NUMBER: US/10/104,919
CURRENT FILING DATE: 2002-03-23
PRIOR APPLICATION NUMBER: US 60/279,222
PRIOR PILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 62
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 42
TENNETH 10x0
APPLICANT: Presnell, Scott R. APPLICANT: Xu, Wenfeng APPLICANT: Kindsvogel, Wayne
                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                              ; NAME/KEY: CDS
; LOCATION: (5)...(589)
US-10-104-919-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661
```

셤

g

ò

셤

ò g ò

Š

셤

δ g ઠે 요

g ò g ઠે 셤 ઠે

ò

g

ò

ω

음 성 음

à

```
FILE REFERENCE: 01-12C1
CURRENT APPLICATION NUMBER: US/10/968,432
CURRENT FILING DATE: 2004-10-19
FRIOR APPLICATION NUMBER: US 00/279,222
PRIOR FILING DATE: 2001-03-27
PRIOR FILING DATE: 2002-03-22
NUMBER OF SEQ ID NOS: 62
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 42
LENGTH: 1050
 OF INVENTION: Human Cytokine Receptor
                                                                                                                                                                                                                                          94.4%;
                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.9
Matches 1049; Conservative
                                                                                                                                                   TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
                                                                                                                                                                                    ; NAME/KEY: CDS
; LOCATION: (5)...(589)
US-10-968-432-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                       충
                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                           360
                                                                                                                                                                                                                                                                                               CGGGGAACTGGACCTGCTGTTTATGTCTCTGGAAAATGCTTGCGTCTGAGCGAGAAGAAG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                    720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGTATCTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                        CCTTGCAGATAACAACACAGAGGTCCGGGGGAGAAACTGTTCCGAGGAGTAAC 300
                                                                                                                                                                                            GCTCCCCCAGTCAGACCAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                              480
                                                                                                                                                                                                                                           ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGGGGGGGAGAGATCAAAGCGAT 540
                                                                                                                                                                                                                                                                                                                                                                                  CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG 660
                                                                                                                                                                                                                                                                                                                                                                                                           099
                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT 960
                                                                                                                                                TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT 180
                                                                                                                                                                                                                                                                                                                                                                                                CTAGAAAAAGGAAGAACTGCTTCCTGCCTTCTAAAAAAGAACAATAAGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                   GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                    GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                         GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACTTTATGCTGGCCAAGGAGGCCAG
                                       GTCCAACTTCCAGCCAGCCGTACATCGTCAACCGCACTTTATGCTGGCCAAGGAGGCCAG
                                                                           CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                              ACTCAGCAATCAGCTCCAGTCCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                            GCTCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TIGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 10
US-10-968-432-42

Sequence 42, Application US/10968432

Publication No. US2050065321A1

GENERAL INFORMATION:
APPLICANT: Presnell, Scott R.
APPLICANT: Kin, Wenfeng
APPLICANT: Kindsvogel, Wayne
APPLICANT: Chen, Zhi
APPLICANT: Hughes, Steven D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                                                                                 241
                                                                                                                                                   301
                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                        481
                                                                                                                                                                                                                                                                                                                                 541
                                                                                                                                                                                                                                                                                                                                                          541
                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 901
                         181
                                                  181
                                                                           241
                                                                                                                           301
                                                                                                                                                                           361
                                                                                                                                                                                                    361
                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        901
                                                                                                                 8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20 20 20 20
```

8 6 8 6 8

8 8 8 셤

180 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420 540 120 120 240 240 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360 ACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGTGACGACCAGAACATCCAGAAGAA 480 540 600 900 099 9 720 GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780 180 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG 300 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480 GACTITITITACIAAAGGAAAGTGAGAAGCIAAACGICCACCAICAIIAGAAGAITITCACAI 720 9 9 CGGGGAACTGGACCTGCTGTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGAACCCTGAATG TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGGAGAAGAAG GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCGCCTGCTTCTCAT TGCCCTGTGGGCCCAGGAGGAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG TGTCAGAAQGCTGAAGGAGACAGTGAAAAAAGCTTGGAGAGAGAGCGAGAGAGCGATCAAAGCGAT 1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT Gaps Score 1048.4; DB 9; Length 1050; Pred. No. 2.2e-215; 0; Mismatches 1; Indels 0; 601 661 661 721 ò g ò 셤 ò

```
Sequence 7, Application US/09751797

Patent No. US20010024652A1

GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jamila
TITLE OF INVENTION: ISOlated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.2
CURRENT FILING DATE: 2000-12-29
FRIOR PAPLICATION NUMBER: 09/419,568
PRIOR PAPLICATION NUMBER: 09/419,568
PRIOR PLING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US09/178,973
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     961 ATACATTTTATTTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     960
                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA 840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAAG 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      360
                                                                                            360
                                                                                                                            420
                                                                                                                                                                                           480
                                                                                                                                                                                                                         480
                                                                                                                                                                                                                                                                                         540
                                                                                                                                                                                                                                                                                                                                          99
                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    841 AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAAG 900
                              300
                                                                                                                                                           361 Gerececcagreadadadadrecegeceracargeadgadgregregererereadada 420
                                                                                                                                                                                                               421 ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                  241 CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                      301 TGCTAAGGATCAGTGCTACCTGATGATGAGGGGGGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                            541 CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                         CTAGABABACGAAGAACTGCTCCTTCCTGCCTTCTABABABAACAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAG
                                                              301 TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                            GCTCCCCCCAGTCCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTTCCTGACCAA
                                                                                                                                                                                             ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                           TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                          CTAGAAAACGAAGAACTGCTTCCTTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                          661 GACTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1021 TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
US-09-751-797-7
 241
                                                                                                                                                                                                                                                                                                                                                                                                                          109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                                                                                                              361
                                                                                                                                                                                             421
                                                                                                                                                                                                                                                           481
                                                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       781
                            g
                                                                                       유
                                                                                                                           ò
                                                                                                                                                           셤
                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 8
                                                              8
                                                                                                                                                                                             ò
                                                                                                                                                                                                                                               ATACATITIATITIATGTCAGITITATIAATATGGATITATITATATATATATATTATAGAAAAATTATCGATG 1020
                                                                                                                                                                                                                             ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                840
                                                                                              900
                                                                                                                 AGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTGAGAAGAAAAG 900
                                                                                                                                                              960
                                                                                                                                                                               CCTATGTAACTTCCATAACCAATACTTTATATATGTAAGTTTATTATATAAGT 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCCCTGTGGGCCCAGGAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT 180
 GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA 780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                               TGCCCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GTCCAACTTCCAGCCGCACACATCGTCAACCGCACCTTATGCTGGCCAAGGAGGCCAG
                                                                                                AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTGAAAAGAAAAG
                                                                                                                                                            AACAGGCTCTCCTCTCACTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 10; Length 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     94.4%; Score 1048.4; DB 10
99.9%; Pred. No. 2.2e-215;
tive 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 40, Application US/11045944

Publication No. US20050124796A1

GENERAL INFORMATION:
APPLICANT: Presnell, Scott R.
APPLICANT: Kindevogel, Wayne
APPLICANT: Chen, Zhi
APPLICANT: Chen, Zhi
TITLE OF INVENTION: Mouse Cytokine Receptor
FILE REFERENCE: 01-08D1
CURRENT FILING DATE: 2005-01-28
PRIOR APPLICATION NUMBER: US 60/273,035
PRIOR APPLICATION NUMBER: US 60/273,035
PRIOR PILING DATE: 2001-03-27
PRIOR FILING DATE: 2002-03-04
NUMBER OF SEQ ID NOS: 49
SOFTWARE: PRESEQ for Windows Version 3.0
                                                                                                                                                                                                                                                                                        TTGATATTTGAGTATAAAGCAAATAATATT 1050
||||||||||||||||||||||||||||
TTGATATTTGAGTATAAAGCAAATAATATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 99.9
Matches 1049; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-11-045-944-40
                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
US-11-045-944-40
                                                                                                                                                                                                                                                                                                                         1021
 721
                                                                 781
                                                                                              841
                                                                                                                              841
                                                                                                                                                                                                                           961
                                                                                                                                                                                                                                                           961
                                                                                                                                                                                                                                                                                           1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                 781
                                                                                                                                                              901
                                                                                                                                                                                             901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE
                                                                                    8 6
                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
   셤
                         8
                                                       ద
                                                                                                                                                      දි දි
                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ર્જ
```

us-09-751-797-9.rnpbm

962

```
Sequence 7, Application US/10627273

Sequence 7, Application US/10627273

Publication No. US20040110189A1

GENERAL INFORMATION:

APPLICANT: Dunhed, Jamia

APPLICANT: Dunhed, Jamia

APPLICANT: Louhed, Jamia

TITLE OF INVENTION: (TIFS)

TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: (VIPS)

TITLE OF INVENTION: (VIPS)

TITLE OF INVENTION: (VIPS)

FILE REFERENCE: LUD 5543.2

CURRENT APPLICATION NUMBER: US/10/627,273

CURRENT FILING DATE: 2000-12-29

PRIOR FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-18

PRIOR FILING DATE: 1998-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NO 7

TENUM.
                                                     ATACATITITATITATGICAGITITATITATATGGATITIATITATAGAAAATITATCIGAIG 1020
                                                                     963 ATACATTTTATTTTATGTCAGTTTATTAATATGGGATTTATTATAGAAACATTATCGCTA 1022
                                                                                                            TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                           1023 TTGATATTT-AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCT 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361 GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  243 CCTTGCAGATAACAACACAGACGTCCGGGTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAGAAATCTATGACTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAG
               TGCCCTGTGGGGCCAAGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   123 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
CCTATGTAACTTCCATAACCAATACTTTATATATGTAAGTTTATTATTAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 94.3%; Score 1047.8; DB 7; Length 1119; Best Local Similarity 97.0%; Pred. No. 3e-215; Matches 1078; Conservative 0; Mismatches 32; Indels 1;
                                                                                                                                                                   1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                   TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-627-273-7
                                                        961
                                                                                                               1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      303
    901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ਠੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                       셤
                                                     ઠે
                                                                         q
                                                                                                              ò
                                                                                                                                                                   Š
                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAG 900
                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                                                                                                                                                                                      GTCCAACTTCCAGCAGCGGTACATCGTCAACCGCACTTTATGCTGGCCAAGGAGGCCAG 240
                                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCTCCCCCAGTCAACAACTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAA 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGTCAGAAGGCTGAAGGAGACAGTGAAAAGCTTGGAGAGAGCGGAGAGATCAAAGCGAT 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       543 TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           122
                                                                                                                                                                                                                                                                                                                          182
                                                                                                                                                                                                                                                                                                                                                                                 242
                                                                                                                                                                                                                                                                                                                                                                                                                           CCTTCCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTCAGCAATCAGCTCCAGATCACATCAGTGGTGACGACCAGAACATCCAGAAGAA 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTCACAT 722
                                                                                                                                                                                                             62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTAGAAAACGAAGAACTGCTCCTTCCTGCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAA
                                                                                                                                                                                                                                                       TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                 grecaactrecageagecarearesteaceaceaceaceaceaceacea
                                                                                                                                                                                                1 AACAGGCTCTCCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                         Gaps
                                                                                                                              Length 1119;
                                                                                                                                                         .;
;
                                                                                                                                                        32; Indels
                                                                                                                            Query Match 94.3%; Score 1047.8; DB 3; Best Local Similarity 97.0%; Pred. No. 3e-215; Matches 1078; Conservative 0; Mismatches 32;
    1998-10-26
                                                                        musculus
  PRIOR FILING DATE: 199
NUMBER OF SEQ ID NOS:
SEQ ID NO 7
                                                         TYPE: DNA
ORGANISM: Mus
                                            LENGTH: 1119
                                                                                                 US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                       243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              783
                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     843
                                                                                                                                                                                                                                                                    63
                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                          123
                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                   183
                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  781
                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                        면
당 성
면
                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                        В
                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                             ठ व ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                     ઠે
```

120

9 62 122 180 182

240 242 300 302 360 362

ö

```
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (47)...(583)
US-09-746-375-37
                                                                                                                                 셤
                                                                                                                                                                             g
                                                                                                                                                                                                        ð
                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                           ઠ
                                                                                                                                                         8
                                                                                                                                                                                                                                                   ∂
                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
              422
                                     480
                                                                                   540
                                                                                                                                  900
                                                                                                                                                                                  999
                                                                                                                                                                                                                                720
                                                                                                                                                                                                                                                                              780
                                                                                                                                                                                                                                                                                                                             840
                                                                                                                                                                                                                                                                                                                                        CTTGATAACCACAAAGATTCATTGACAATATTTATTGTCACTGATGATACAACAGAAAA 842
                                                                                                                                                                                                                                                                                                                                                                           900
                                                                                                                                                                                                                                                                                                                                                                                                                                                 962
                                                            482
                                                                                                         542
                                                                                                                                                          602
                                                                                                                                                                                                        662
                                                                                                                                                                                                                                                      722
                                                                                                                                                                                                                                                                                          ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAG 902
                                                                                                                                                                                                                                                                                                                                                                                                                          CCTATGTAACTTTCCATAACCAATACTTTATATATGTAAGTTTATTTTATTATAAGT 960
TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                  CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                      GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTATGTAACTICATTICCATATCCAATATTTTATATATGTAAGTTTATTATTATATATGTAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TIGATATIT-AGTATAAGGCAAATAATATTATGACAATAACTATGGAAACAAGATATCT
                                     ACTCAGCAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                   TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                   CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                  CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                              GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                            CTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAA
                                                                                                                                                                                                                                                                                                                                                                           AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCTATCCTCTAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Presentl, Scott R.
APPLICANT: Kindsvogel, Wayne
TITLE OF INVENTION: NOVEL CYTOKINE ZCYTO18
FILE REFERENCE: 99-106
CURRENT APPLICATION NUMBER: US/09/746,375
CURRENT PILING DATE: 2000-12-22
RIOR APPLICATION NUMBER: US 60/172,105
PRIOR FILING DATE: 1999-12-23
PRIOR PILING DATE: 2000-12-01
NUMBER OF SEQ ID NOS: 44
SOFTWARE: FastSEQ for Windows Version 3.0
SSOFTWARE: FastSEQ for Windows Version 3.0
LENGTH: 778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 37, Application US/09746375; Publication No. US20030170823A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
US-09-746-375-37
                                                                                                                                                                                                                                                     663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1082
                                                                                                                                                         543
                                                                                                                                                                                                                                                                                                                                                                           841
                                                                                                                                                                                                                                                                                                                                                                                                   843
                                                                                                                                                                                                                                                                                                                                                                                                                         901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1081
              363
                                     421
                                                          123
                                                                                  481
                                                                                                         483
                                                                                                                                  541
                                                                                                                                                                                601
                                                                                                                                                                                                        603
                                                                                                                                                                                                                                661
                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                    723
                                                                                                                                                                                                                                                                                                                          781
                                                                                                                                                                                                                                                                                                                                                  783
                                                                                                                                                                                                                                                                                                                                                                                                                                                 903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961
                                                    성 음
                                                                                                                                                                                                                                                                                                                                             g
                                                                                                    g
                                                                                                                                                  셤
                                                                                                                                                                               ò
                                                                                                                                                                                                    g
                                                                                                                                                                                                                              8 6
                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                          8 6
                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                    ઠે
                                                                                                                                 ò
                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
```

```
240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           480
                                                                                                                                                                          123
                                                                                                                                                                                                                                                               183
                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                  243
                                                                                                                                                                                                                                                                                                                                                                                                                                       303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 541 GGAACTGGACCTGCTGTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGAAGCTA 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601 GAAAACGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGAC 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             604 GAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGAC 663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACATGAA 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         661 TITTTACTAAAGGAAAGTGAGAAGCTAACGTCCATCATCATTAGAAGATTTCACATGAA 720
                                                                                                                               9
                                                                                       63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              778
                                                                                                                                                                                                                                                                                        121 CCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAACTICCAGCAGCCGTACATCGTCAACCGCACCTITATGCTGGCCAAGGAGGCCAGCCT
                                                                                                                                  AGGCTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCA
                                                                                                                                                                            CCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                                  CAACTICCAGCAGCCGIACAICGICAACCGCACCITTAIGCIGGCCAAGGAGGCCAGCCI
                                                                                                                                                                                                                                                                                                                                                                                                                                       TGCAGATAACAACACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 TGCAGATAACAACACAGATGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 CCCCCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGCAATCAGCTCAGCTCCTGTCACATCAGTGATGACGACCAGAACATCCAGAAGAATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421 CAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACAGAACATCCAGAAGAATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTA
                                                                                       4 AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCA
                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCTGGCTCAGTTGAAAAAAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     724 ACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGAC
                                            ö
Length 778;
                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Xu, Wenfeng
APPLICANT: Kindsvogel, Wayne
APPLICANT: Hughes, Steven D.
APPLICANT: Chandrasekher, Yasmin A.
TITLE OF INVENTION: USING IN INFLAMMATION
  Score 757.2; DB 3;
Pred. No. 9.5e-153;
0; Mismatches 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 37, Application US/10395741B; Publication No. US20040023341A1; GENERAL INFORMATION:
  Query Match
Best Local Similarity 98.3%;
Matches 765; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 15
US-10-395-741B-37
                                                                                                                                                                            64
                                                                                                                                                                                                                                                               124
                                                                                                                                                                                                                                                                                                                                                  184
                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                       244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       484
```

```
ö
                                                                                                                                                                                                                                                                          CCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGTGTC 183
                                                                                                                                                                                                                                                                                                                                                                    CAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCT 243
                                                                                                                                                                                                                                                                                                                                                                                TGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCCAGGAGTCAGTGC 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCTGCT 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGCAATCAGCTCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAATGT 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAGAAGGCTGAAGGAGACACTGAAAAAGCTTTGGAGAGGGGGAGAGATCAAAGCGATCGG 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTA 603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGAC 663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTTTACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACATGAA 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTGTGGGCCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    raaggarcagrecractreargaaggaggrecreaacricacccregaagacgricrecr 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACT 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAGCAATCAGCTCCAGCTCCTGTCACATCAGTGACGACCAGAACATCCAGAAGAATGT 483
                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCTGGCTCAGTTGAAAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGAC 781
                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                         ö
                                                                                                                                                                                  Length 778;
                                                                                                                                                                                                         13; Indels
                                                                                                                                                                                   Query Match 68.2%; Score 757.2; DB 7;
Best Local Similarity 98.3%; Pred. No. 9.5e-153;
Matches 765; Conservative 0; Mismatches 13;
FILE REFERENCE: 02-04
CURRENT APPLICATION NUMBER: US/10/395,741B
CURRENT FILING DATE: 2003-03-24
FRIOR APPLICATION NUMBER: US 60/366,842
NUMBER OF SEQ ID NOS: 67
SOFTWARE: FASESEQ for Windows Version 3.0
SOFTWARE: FASESEQ for Windows Version 3.0
LENGTH: 778
                                                                                                       TYPE: DNA ORGANISM: mus musculus
                                                                                                                             ; FEATURE:
; NAME/KEY: CDS
; LOCATION: (47)...(583)
US-10-395-741B-37
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           604
                                                                                                                                                                                                                                                                                                                                                                                                                  244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    724
                                                                                                                                                                                                                                                                                                                                                                     184
                                                                                                                                                                                                                                                                                                                                                                                                                                        241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                             64
                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                         124
                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                              304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      424
                                                                                                                                                                                                                                                 q
                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               상
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6
                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                       요 요
                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                ઠે
```

Search completed: December 21, 2005, 21:08:13 Job time : 558.632 secs

```
GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                             OM nucleic - nucleic search, using sw model
                    Copyright
```

December 20, 2005, 13:17:12 ; Search time 77.4651 Seconds Run on:

(without alignments)
7442.822 Million cell updates/sec

US-09-751-797-9

1 aacaggctctcctctcagtt......aaacacatgaatatcataaa 1111 IDENTITY NUC Gapop 10.0 , Gapext 1.0 Perfect score: Scoring table: Sequence:

4168288 seqs, 259477437 residues Searched:

8336576 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Listing first 45 summaries Post-processing: Minimum Match 0% Maximum Match 100%

Database

Published Applications NA New:*

1: /cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*

2: /cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*

3: /cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*

4: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

5: /cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

7: /cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

7: /cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

8: /cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

9: /cgn2_6/ptodata/2/pubpna/USO1_NEW_PUB.seq:*

10: /cgn2_6/ptodata/2/pubpna/USO0_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	S C C	& Query Match	% Query Match Length	ם ב	ŗ.	
: :	acore	MACCI	nengen	9 :	GT.	Description
-	1111	100.0	1111	7	US-11-177-987-9	Sequence 9, Appli
7	1047.8	94.3	1119	7	US-11-177-987-7	Sequence 7, Appli
m	602.4	54.2	5935	7	US-11-177-987-42	42
4	555.2	50.0	7445	7	US-11-177-987-8	80
ഹ	525.6	47.3	1152	7	US-11-102-240-153	15
9	407.6	36.7	069	7	US-11-177-987-25	25, 7
7	217.2	19.5	418	7	US-11-177-987-18	18,
ω	127.6	11.5	4797	7	US-11-177-987-26	26,
σ	61	5.5	161874	7	US-11-121-086-75	75,
10	57.6	5.2	151169	7	US-11-121-086-38	38,
1	55.6	5.0	171486	7	US-11-121-086-105	105,
12	55.6	5.0	394468	9	US-10-995-561-13473	13473
13	55.2	5.0	26772	9	US-10-995-561-13313	Sequence 13313, A
14	55.2	5.0	54946	9	US-10-995-561-13479	Sequence 13479, A
12	54.6	4.9	171486	7	US-11-121-086-105	Sequence 105, App
16	54.4	4.9	394468	9	US-10-995-561-13473	13473
11	53.2	4.8	173602	7	US-11-121-086-25	Sequence 25, Appl
18	23	4.8	181172	7	US-11-121-086-41	Sequence 41, Appl
19	52.8	4.8	105550	9	US-10-995-561-13235	132
20	51.8	4.7	173602	7	US-11-121-086-25	25,
21	51.6	4.6	146656	7	US-11-121-086-68	Sequence 68, Appl
22	51.6	4.6	151169	7	US-11-121-086-38	Sequence 38, Appl
23	51	4.6	20317	9	US-10-995-561-13460	134

3, Appli	П	10, Appl	75, Appl	13511, A	13303, A	٠.	43, Appl	77	13354, A	13235, A	٠.,	13443, A	٠.	192, App	45, Appl			74696, A		39052, A	10, Appl
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
US-10-857-780-3	US-10-995-561-13314	US-10-515-481-10	US-11-121-086-75	US-10-995-561-13511	US-10-995-561-13303	US-10-995-561-13396	US-11-121-086-43	US-10-821-234-771	US-10-995-561-13354	US-10-995-561-13235	US-10-750-185-39052	US-10-995-561-13443	US-10-995-561-13314	US-11-117-187-192	US-11-112-908-45	US-11-121-086-88	US-10-995-561-13303	US-10-995-561-74696	US-11-112-908-34	US-10-750-185-39052	US-10-515-481-10
147700 6	119036 6	7720 6	161874 7	12872 6	201990 6	398287 6	75416 7	14941 6	47444 6	105550 6	1483 6	49979 6	19036 6	34499 7	82314 7	84868 7	9 06610	201 6	781 7	1483 6	7720 6
5 147	5 119	5 7	5 161	4 12	1.4 201	4 398	1.4 175	4.4 14	1.4 47	1.4 105	1.4	1.4 49	1.3 119	1.3 134	1.3 182	.3 184	1.3 201	1.3	1.3 197781	1.3 1	3 7
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
50.2	20	49.8	49.6	49.4	49.2	49.2	49	48.8	48.6	48.6	48.4	48.4	48.2	48.2	48.2	48.2	48.2	48	48	47.8	47.6
24	25	56	27	28	53	30	31	32	33	34	35	36	37	38	38	40	41	42	43	44	45
ΰ		υ			υ		υ			υ			υ			υ		υ		υ	

ALIGNMENTS

```
Sequence 9, Application US/11177987

Sequence 9, Application US/11177987

Sequence 9, Application Wo. US20050271619A1

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

CURRENT APPLICATION NUMBER: US/11/177,987

CURRENT FILING DATE: 2000-07-27

PRIOR APPLICATION NUMBER: US09/419,568

PRIOR PILING DATE: 1999-10-18

PRIOR APPLICATION NUMBER: US09/354,243

PRIOR PILING DATE: 1999-07-16

PRIOR PILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 GCAGAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCACCTGCTTCTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 AACAGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 100.0%; Score 1111; DB 7;
Best Local Similarity 100.0%; Pred. No. 1e-250;
Matches 1111; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-11-177-987-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

ô

180

181 GTCCAACTTCCAGCAGCAGTCGTCAACCGCACCTTTATGCTGCTGGCCAAGGAGGCCAG 240

121 TGCCCTGTGGGCCCAGGAGGCAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT

셤

8

셤 8 8

8

B & B & B & B &

```
540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  662
                                                                                                                                                                                                                                                                        ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                             240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          782
                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 422
                                                                                                                                                                                                                                                                                                                                                                               122
                                                                                                                                                                                                                                                                                                                                                                                                                                  182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          302
                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                          62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTTGCAGATAACAACACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTTGCAGATAACAACACAGAGGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTCAGCAATCAGCTCCAGCTCCTGTCACATCAGCGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    541 CGGGGAACTGGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCAGGAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAAACCTGGCTCAGTTGAAAAAGAAAATAGTGTCAAGTTGTCCATGAGAGCCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                  TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACTCAGCAATCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTCAGAAGGCTGAAGGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                 TGCCCTGTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGT
                                                                                                                                                                                                                                                                                                 1 AACAGGCTCTCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                        1;
                                                                                                                                                                                                                                               1119
                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                               DB 7;
                                                                                                                                                                                                                                           Score 1047.8; DB 7,
Pred. No. 6.4e-236;
0; Mismatches 32;
CURRENT APPLICATION NUMBER: US/11/17,987
CURRENT FILING DATE: 2005-07-07
PRIOR APPLICATION NUMBER: US/09/626,617
PRIOR FILING DATE: 2000-07-27
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR PILING DATE: 1999-07-16
PRIOR PILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                             94.3%;
97.0%;
                                                                                                                                                                                                                                             Query Match 94.3
Best Local Similarity 97.0
Matches 1078; Conservative
                                                                                                                                                                                          musculus
                                                                                                                                                                               TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                 1119
                                                                                                                                                                                                                    US-11-177-987-7
                                                                                                                                                                                                                                                                                                                                                        61
                                                                                                                                                                                                                                                                                                                                                                                63
                                                                                                                                                                                                                                                                                                                                                                                                            121
                                                                                                                                                                                                                                                                                                                                                                                                                                     123
                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 7, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible
FILE REFERENCE: LUD S664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATACATITIATITIATCAGITITATTAATATGGATTTATTATAGAAAATTATCTGATG 1020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCT 1080
                                                                                                                                                                                                                                                                                                                              900
                                                                                                                                                                                                                                                                                                                                                        999
                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      960
                                                                                   360
                                                                                                            360
                                                                                                                                        420
                                                                                                                                                       GCTCCCCCAGTCAGACCAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA 420
                                                                                                                                                                                           480
                                                                                                                                                                                                                    480
                                                                                                                                                                                                                                                540
                                                                                                                                                                                                                                                                           540
                                                                                                                                                                                                                                                                                                    600
                                                                                                                                                                                                                                                                                                                                                                                   99
                                                                                                                                                                                                                                                                                                                                                                                                            GACTITITITACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT 720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                              CCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAG
                                                                                                    CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                      CTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTATTATTATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTGATATTTTGAGTATAAAAGCAAATAATTATTGATAATAACTATAGAAACAAGATATTCT
     GTCCAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAG
                                                                                   TGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCT
                                                                                                                                                                                                        CTAGAAAACGAAGAACTGCTCCTTCCTTCTAAAAAGAACAATAAGATCCCTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                           GACTITITIACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACAT
                                                                                                                                      GCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAA
                                                                                                                                                                                           ACTCAGCAATCAGCTCCACTCCTGTCACATGGTGGTGACGACCAGAACATCCAGAAGAA
                                                                                                                                                                                                                                                TGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGGAGAGATCAAAGCGAT
                                                                                                                                                                                                                                                                                                     CGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGGCTTTAATAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2
US-11-177-987-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1021
                               241
                                                           241
                                                                                    301
                                                                                                             301
                                                                                                                                                                  361
                                                                                                                                                                                                                    421
                                                                                                                                                                                                                                                                                                     541
                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                          601
                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                             661
                                                                                                                                                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                196
                                                                                                                                        361
                                                                                                                                                                                             421
                                                                                                                                                                                                                                                481
                                                                                                                                                                                                                                                                           481
```

8 6 8 6 8 6 8 6

8 S

8 6 8 6

8

셤

..

```
Sequence 8, Application US/1117987

Sequence 8, Application US/1117987

Publication No. US2005027161931

GENERAL INFORMATION:
TITLE OF INVENTION: Included Nucleic Acid Molecules which Encode T Cell Inducible Fact TITLE OF INVENTION: Included Nucleic Acid Molecules which Encoded, and Uses Thereof TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof FILE REFERENCE: LUD 564

CURRENT APPLICATION NUMBER: US/09/626,617

PRIOR FILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-16

PRIOR PILING DATE: 1999-10-16

PRIOR PILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

LENGTH: 7445
                                                                                                                                                                                                                                                                                             5700
                                                                                                                      5580
                                                                                                                                                                                                            5640
                                                                                                                                                                                                                                                                                                                                     988 ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                      1048 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6654
                                                                                                                                                                                                                                                                                                                                                                               5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         687
                                                                                                                                                                927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     627
                                                                                                                                                                                          5701 ATATGATITATTIATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                              5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            535 ATAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6595 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCAGAAAAACGAAGAAGAACTGCTTCCT
                                       5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAAGATTCATTGACA
                                                                                                                      5521 ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                  868 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                      628 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  508 AAAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 7445;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 555.2; DB 7;
Pred. No. 3.1e-120;
0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 50.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 Similarity 96.0
580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1108 TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5821 TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 4
US-11-177-987-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-177-987-8
  748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S:
Matches 580
                                                                                 808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        q
                                셤
                                                                                                                셤
                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequence 42, Application US/11177987

sublication No. US20050271619A1

GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure

APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: INTERIOR OF 1200-07-07

TITLE OF INVENTION: INTERIOR OF 1200-07-07

CURRENT FILING DATE: 2005-07-07

PRIOR APPLICATION NUMBER: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/626,617

PRIOR PELING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR PELING DATE: 1999-07-16

PRIOR PELING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5340
                                                                                                                                                                                                                                                      TTGATATTT-AGTATAAGGCAAATAATATTTATGACAATAACTATGGAAACAAGATATCT 1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
                                                                                                                                                                       960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           747
                                                                                                                        902
                                         842
                                                                                                                                                                                                   CTTATGTAACTTCATTTCCATATCCAATATTTTATATATGTAAGTTTATTATTATATAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5221 ATAGCTTGGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crigaraaccacaaagaricarigacaararrirrirricicacrigargaracaacagaaa
                                                                                                                        ATAATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTTTAGAAAAAA
                                                                                                                                                                                                                                                                                                                                     TTGATATTTGAGTATAAAGCAAATAATATTTTATGATAATAACTATAGAAACAAGATATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 508 AAAGCTTGGAGAGGGGGGAGAGAGTCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5341 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                    CCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTTTTATTATATAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTAACGTCCACCATCATTAGAAGATTTCACATGAAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 7; Length 5935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 54.2%; Score 602.4; DB 7; Best Local Similarity 99.8%; Pred. No. 2.5e-131; Matches 603; Conservative 0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                              1081 TAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 3
US-11-177-987-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-177-987-42
                                                                                                                        843
                                                                                                                                                                                                            903
                                                                                                                                                                                                                                                      961
                                                                                                                                                                                                                                                                                             696
                                                                                                                                                                                                                                                                                                                                                                               1023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          628
                                         783
                                                                                                                                                                  901
                                                                                                                                                                                                                                                                                                                                       1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             688
  781
                                                                                 841
                                                                                                                                                                                                                                                                                    q
                              名
                                                                                 8 8
                                                                                                                                                              පු පු
                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
ઠે
                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ⋩
```

246

186

494

546 554 909 614

434

374

999 674 722 779

734

835

794

```
ATTTATAGAAAATTTATCTGATGTTGATATTTGAGTATAAAGCAAATA---ATATTTATG 1054
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            975 AIGIAITIAITAITATAAAGACTGCAITITAITTAIATAICATITIAITAATAIGGAITI 1034
CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC 254
                                                                                                                                                                                                                                                                                     255 TGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGAGTCAGTATGAG 314
                                                                                            247 AGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGCTAA 306
                                                                                                                                                                                                                                                                                                                                                     307 GGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCTGGAAGACATTCTGCTCCC 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACTCAG 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAATCAGCTCCAGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAATGTCAG 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACAATAATATATATAGAGCTATAAACATGTTTATTTGACCTCAATAAAAACACTTGGATATC 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATAATAACTATAG----AAACAAGATATCTTAGGCTTTAATAAACACATGAATATC 1106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGAT----AATGCAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        315 TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Acresarrrecrerrarereresasaracerecreraresesasasasaras
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITA----CTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AACCTGGCTCAGTTGAAAGAGAAAATAGTGTCAA--GTTGTCCATGAGACCAG-AGGTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 accicriocernacinacia a de contrator de la recontrativa de la contrativa del contrativa della contrativa dell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          836 GAAAAAGTATGTACTTTAAAAAATTGTTT-----GAAAGGAGGTTACCTCTCATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTA---GAAGAAAAGCCTATGTAACTTCA--TTTCCATAACCAATACTTTATATATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 944 GITIATITATIATAAGTATA-----CATITIATITIATGTCAGTITAATAAGAATTT
                                                                                                                                                                CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATGAATAACTAACCCCTTTCCCTGCTAGAATAACAATTAGATGCCCCAAAGCGATTT
                                                                      GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            855 AAAACAATTTATTTTTAAATAATTGTCTTTTTCCATAAAAAAGATTACTTTCCATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                      367
                          75
                                                                                                                                                                   187
                                                                                                                                                                                                               195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1095
                                                                      127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          심
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         음 중
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                 ઠે
                                                                                                      g
                                                                                                                                                              ò
                                                                                                                                                                                                g
                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                         q
                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Godowski, Paul J.
APPLICANT: Godowski, Paul J.
APPLICANT: Gurmaldi, Christopher J.
APPLICANT: Gurmaldi, Christopher J.
APPLICANT: Gurmaldi, Christopher J.
APPLICANT: Gurmaldi, Christopher J.
APPLICANT: Gurmay, Austin L.
APPLICANT: Wood, William I.
TITLE OF INVENTION: ESOPHAGEAL TUMOR
TITLE OF INVENTION: ANITHEDES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
TITLE OF INVENTION: ANITHEDES TO 5010-1200
TITLE OF INVENTION NUMBER: US/11/102,240
CURRENT APPLICATION NUMBER: US/3662
PRIOR FILING DATE: 2002-05-07
PRIOR APPLICATION NUMBER: 10/006867
PRIOR APPLICATION NUMBER: PCT/US00/23328
PRIOR APPLICATION NUMBER: 60/170262
PRIOR APPLICATION NUMBER: 60/170262
PRIOR FILING DATE: 2000-08-24
PRIOR FILING DATE: 199-12-09
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 153
                                                                                                                                                                                                                                                                                                                                                          6954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATAITITATIGICATIGATAATGCAACAGAAAAGTAIGIACTITAAAAAATIGITIGAA 867
                                                                                                                                                                                                                                                                                                                                                                                                        987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA 74
                                                   TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                        ATATITIATIGICACIGATGATACAACAGAAAAATAATGACTITAAAAAAAAATAATAATAA
                                                                                                                                                                                                                                                                                                              AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                           ATATGGATTTATTATAGAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT
                             GCTAACGTCCACCATCATTAGAAGATTTCACATGAAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                       TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
47.3%; Score 525.6; DB 7;
Best Local Similarity 72.7%; Pred. No. 1.1e-113;
Matches 826; Conservative 0; Mismatches 274;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-11-102-240-153
Sequence 153, Application US/11102240
Publication No. US20050260647A1
GENERAL INFORMATION:
APPLICANT: Goddard, Audrey
APPLICANT: Goddwgki, Paul J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TAAA 7137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-11-102-240-153
                                                                         6715
                                                                                                                                                                   6775
                                                                                                                                                                                                                                                               6835
                                                                                                                                                                                                                                                                                                                                                            6895
                                                                                                                                                                                                                                                                                                                                                                                                                                                      6955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7134
                                                                                                                       748
                                                                                                                                                                                                                 808
                                                                                                                                                                                                                                                                                                                868
                                                                                                                                                                                                                                                                                                                                                                                                        928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15
                             688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                              8 4 8 4 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              장염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        දු පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                            g
                                                                                                                    6 8 6
                             ઠ
```

943

974

888 914

854

997

```
Sequence 18, Application US/11177987

Sequence 18, Application US/11177987

Sequence 18, Application US/11177987

Sequence 18, Application US/11177987

GENERAL INFORMATION:

APPLICANT: Dumonutier, Laure

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: UNBER: US/11/177,987

CURRENT APPLICATION NUMBER: US/99/626,617

PRIOR APPLICATION NUMBER: US/99/19,568

PRIOR APPLICATION NUMBER: US/99/19,568

PRIOR APPLICATION NUMBER: US/99/19,568

PRIOR PILING DATE: 1999-10-16

PRIOR FILING DATE: 1999-10-16

PRIOR FILING DATE: 1999-10-16

NUMBER OF SEQ ID NOS: 43

SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61 ceresceaescreascaacaescraascaearerereraringaascrearerer 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181 CAAAGCAATTGGAGAACTGGATTTTGCTGTTTTATGTCTCTGAGAAATGCCTGCATTTGACC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 AGAGCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGAT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            652 CCCTGAATGGACTTTTTT----ACTAAAGGAAAGTGAGAAGCTAACGTCCACCATCATTA 707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         301 GCCCCAAAGCGATTTTTTTAACCAAAGGAAGATGGGAAGCCAAACTCCATCATGATGG 360
629 AATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTT 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 AGAAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         412 CCTGACCCAAACTCAGCAATCAGCTCCAGTCACATCAGTGACGACCAGAACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCAGAAGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGCGGAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 CCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGAGAGAGGTGGAGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      592 GAGAAGAAGCTAGAAAACGAAGAACTGCTCCTTCCTGCCTTCTAAAAAGAACAATAAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    352 AGACATTCTGCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 418;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      708 GAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361 Gregarrecaaargaaceereeerraerracaaagaaa 400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches 103;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19.5%; Score 217.2; DB 773.2%; Pred. No. 9.9e-42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 8
US-11-177-987-26
is Sequence 26, Application US/11177987
ipublication No. US20050271619A1
igeneral information:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity 73.2
Matches 293; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                    ||
689 TT 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Homo
                                          TI 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-11-177-987-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
셤
                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
         Sequence 25, Application US/1117987

Sequence 25, Application US/1117987

Publication No. US20050271619A1

GENERAL INPORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Renauld, Jean-Christophe

TITLE OF INVENTION: Isolated Mucleic Acid Molecules which Encode T Cell Inducible Fac

TITLE OF INVENTION: Isolated Mucleic Acid Molecules which Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

CURRENT PAPLICATION NUMBER: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/419,568

PRIOR FILING DATE: 1999-10-18

PRIOR PLILING DATE: 1999-10-18

PRIOR APPLICATION NUMBER: US/09/354,243

PRIOR APPLICATION NUMBER: US/09/354,243

PRIOR FILING DATE: 1999-10-26

NUMBER: US/09/178,973

PRIOR FILING DATE: 1998-10-26

SEQ ID NO 25

LENGTH: 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACTGGATTTGCTGTTTATGTCTCTGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAA 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGATAACAACACAGACGTCCGGCTCATCGGGGAGAACTGTTCCGAGGAGTCAGTGCTAA 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTCTGCTCCC 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCA 508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AACGAAGAACTGCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTT 666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGAGTCAGTATGAG 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAATCAGCTCAGCTCCTGTCACATCAGTGGTGACGACCAGAACATCCAGAAGAATGTCAG 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTIGGIACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crecrrecedacrecagrigerecagringaarrererecarrecedececerecada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGAGTCAAAGCGATCGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 690;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches 159; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 407.6; DB 7
Pred. No. 3.5e-86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                36.7%;
76.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches 503; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JS-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
```

```
125602 TATATTTTAAGATAAATACGTTTTATAATATTTTAAGATAAATACATTTTATAATA 125543
                                                                                                                                                                                                                                                                                                                943 AGTITATITATIATAAGTATACATITITATITATGTCAGTITATTAATATGGATTITATTA 1002
                                                                                                                                                                                                                                                                        1003 TAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAATATTATGATAATAATAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              988 ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1048 ATTTATCATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               868 AGGAGGTTACCTCTCTATAGAAAAGCCTATGTAACTTCATTTCCATAACCAA 927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      928 TACTITATATATGIAAGITITATTATTATAAGIATACATTITTATTATGICAGITITATTA 987
TGATAATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTC 882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        808 ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                       ATTCCTCTAGAAAAGCCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTA
                                                                                                                                                                                                                         125542 ITTTAAGATAAATACGTTTTATAACATATTTTAAGATAAATATGTTTTATAATATTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: POULSEN, TIM S.

APPLICANT: POULSEN, TIM S.

TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES FILE REFERENCE: 09138.6000.00000

CURRENT PRILING DATE: 2005-05-04

PRIOR APPLICATION NUMBER: 60/567,570

PRIOR FILING DATE: 2004-05-04

SOFTWARE: PACHOLIN NOWER: 60/567,570

PRIOR FILING DATE: 2004-05-04

SOFTWARE: PACHOLIN VERSION 3.3

SEQ ID NO 38
                                                                                                                                                                                                                                                                                                                                                                                            1063 TATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 57.6; DB 7; Length 151169;
Pred. No. 0.0039;
0; Mismatches 154; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Sequence 38, Application US/11121086; Publication No. US20050266459A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 49.3
Matches 150; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , ORGANISM: Homo sapiens
US-11-121-086-38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17351 TATA 47348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1108 TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-11-121-086-38/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   151169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 11
US-11-121-086-105
                                                                                            883
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                     셤
                                                                                         à
                                                                                                                                    셤
                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
    APPLICANT: Remauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: INDUSER: US/11/17,987
CURRENT APPLICATION NUMBER: US/09/626,617
PRIOR PEDILOATION NUMBER: US/09/626,617
PRIOR APPLICATION NUMBER: US/09/419,568
PRIOR PILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US/09/354,243
PRIOR PILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         125722 CTTAAGCATATATTTTAACACATTAAAAAGAAATATATTTTAACAACATATTAAAATAGA 125663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      763 CATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCAT 822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCCGGTGCAAGCTTGAGGTGTCCAA 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7 CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: INTOMATION:
APPLICANT: NIELSEN, KIRSTEN V.
TITLE OF ENVEWARTON: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
FILE REFERENCE: 09138.6000-00000
CURRENT APPLICATION NUMBER: US/11/121,086
CURRENT FILING DATE: 2005-05-04
PRIOR APPLICATION NUMBER: 60/567,570
PRIOR FILING DATE: 2004-05-04
SOFTWARE: PARCHED NOS: 107
SOFTWARE: PATENTIN VERSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGG 236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11.5%; Score 127.6; DB 7; Length 4797; 72.2%; Pred. No. 3e-20; ive 0; Mismatches 64; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5.5%; Score 61; DB 7; Length 161874; 48.4%; Pred. No. 0.00064;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches 180;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Sequence 75, Application US/11121086; Publication No. US20050266459A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches 169; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           166; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-11-121-086-75/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-11-121-086-75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-11-177-987-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local
Matches 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 9
```

ò g à 셤

à

ద

```
340643 АГААААТСТАТАТАТАТТТАТСТАТАААТАТАТССАТТТАТАТАТТТАТСТАТАААТАТА 340702
                                                                                                                                                                                                                                                                                                                                                                                                                      340703 TGCATTTATATTTTATGTATAATATATGCATTTATATTTTATGTATAATATATGCA 340762
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      340763 ттталагаттталдгаталалагатататдскатттататттатстатадататат 340822
                                                                                                                       955 ATAAGTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAAATTAT 1014
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1015 CTGATGTTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAG 1074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1007 AAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATA 1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 13113, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CLO01559
CURRENT APPLICATION NUMBER: US/10/995, 561
CURRENT PILLING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOCTHARE: PERSENCE OF Windows Version 4.0
SEQ ID NO 13313
LENGTH: 26772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              340583 TITIATACATATAAAATITIGTATATAAATITTATAYCTATATGAAATATAGATATATITT
                                                                        782 TTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAAA
                                                                                                                                                                                                                                                                          767 AGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACAATATTTTATTGTCATTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         827 AATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAAAGGAGGTTACCTCTCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21871 ATAATATTCTATATAAATATATGTTATATTATTATATAGAATACTATATAK-TATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            887 CTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAATACTTTATATATGTAAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               947 TATTTATTATAAGTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ä
                                                                                                                                                                          842 GIAIGIACIIITAAAAAIIGIIIGAAAGGAGGIIACCICICAIICCICIAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 26772;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        340823 TATATTTATGTATAATATATGCATTTATATATTTA 340858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1075 ATATCTTAGGCTTTAATAAACACATGAATATCATAA 1110
  50.0%; Pred. No. 0.018;
iive 1; Mismatches 160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5.0%; Score 55.2; DB 6; 30.7%; Pred. No. 0.0061; ive 2; Mismatches 145;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 50.7°
Matches 152; Conservative
Best Local Similarity 50.0
Matches 168; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Homo Bapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-995-561-13313/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-995-561-13313
                                                                                                                                                                        à
                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>අ</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCATION: (1). T. (394468)
OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16478 TATATAATTATATTACATATTAATATAATTATATTAATATAATTAA-AACAATAT 16536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16537 AATATATATATATATATATATATATATTATGTATTATATATATATATATATATATATATA 16596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           978 CAGITTATTAATATGGATTTAATATAAAAATTATCTGATGTTGATATTTGAGTATAA 1037
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1038 AGCAAATAATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACAC 1097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 13473, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
APPLICANT: CARGILL Michele et al.
ATITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DEFECTION AND USES THEREOF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SEQ ID NO 13473
LENGTH: 394468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              799 TCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAA
                                                                                  APPLICANT: NIELSEN, KIR STEN V.

TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES FILE REFERENCE: 09138.6000-00000

CURRENT APPLICATION NUMBER: US/11/121,086

CURRENT FILING DATE: 2005-05-04

PRIOR APPLICATION NUMBER: 60/567,570

PRIOR PILING DATE: 2004-05-04

NUMBER OF SEQ ID NOS: 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 55.6; DB 7; Length 171486; Pred. No. 0.012; 0; Mismatches 139; Indels 3;
  Sequence 105, Application US/11121086
Publication No. US20050266459A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16716 TATTÁTÁTAÁTÁÁÁ 16729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          54.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1098 ATGAATATCATAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 54.8
Matches 172; Conservative
                                                                     APPLICANT: POULSEN, TIM S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                            Publication No. US200
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 12
US-10-995-561-13473
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-995-561-13473
                                                                                                                                                                                                                                                                                                                                              171486
                                                                                                                                                                                                                                                                                                                                                                                                                         US-11-121-086-105
                                                                                                                                                                                                                                                                                                                         SEQ ID NO 105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              919
                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE:
```

셤

ò

셤 ઠે

8 8

g

ઠે 요 8

ઠે

ä

Length 394468;

9 DB

5.0%; Score 55.6;

Query Match

ω

```
3206 trataratarataratratatratatrataratra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAATATTTATGATAATAACTATA 1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3325 ATAATATTCTATATAAATATATGTTATTATTATATAGAATACTATATAK-TATATA 3267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           947 TATTTATTATAAGTATACATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGA 1006
Sequence 13479, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
TITLE OF INVERTION: GENETIC FOLYMORES AND DRUG RESPONSE, METHODS OF TITLE OF INVERTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF TITLE OF INVERTION: DETECTION AND USES THEREOF TITLE OF INVERTION: DETECTION AND USES THEREOF FILE REFRENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT APPLICATION NUMBER: US/10/995,561
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FESTESEQ for Windows Version 4.0
ILENGTH: 54946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             767 AGACCAGAGGIAGACTIGAIAACCACAAAGAIICAIIGACAAIAIITITAIIGICAIIGAI 826
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           827 AATGCAACAGAAAAGTATGTACTTTAAAAATTGTTTGAAAGGAGGTTACCTCTCATTC 886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gequence 105, Application US/11121086
| Publication No. US20050266459A1
| GENERAL INFORMATION:
| APPLICANT: POULSEN, TIM S.
| APPLICANT: POULSEN, TIM S.
| TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
| FILE REFERENCE: 09138.600-00000
| CURRENT APPLICATION NUMBER: US/11/121,086
| CURRENT PILING DATE: 2005-05-04
| PRIOR APPLICATION NUMBER: 60/567,570
| PRIOR FILING DATE: 2004-05-04
| PRIOR FILING DATE: 2004-05-04
| RIOR FILING DATE: 2004-05-04
| PRIOR FILING DATE: 2004-05-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             793 AAAGATTCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ); DB 7; Length 171486;
0.021;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5.0%; Score 55.2; DB 6; Length 54946; 50.7%; Pred. No. 0.0087; tive 2; Mismatches 145; Indels 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4.9%; Score 54.6; DB 7; Length 1
48.3%; Pred. No. 0.021;
ive 0; Mismatches 164; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 50.7
Matches 152; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 48.3
Matches 153; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                     ; ORGANISM: HOWO E
US-10-995-561-13479
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-11-121-086-105/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 171486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
US-11-121-086-105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              જ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
```

유

```
973 TATGTCAGTTTATTAATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAG 1032
853 AAAAAATTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTT 912
                                                           913 CATTICCATAACCAATACTITATATATGTAAGTTTATTATTATAAGTATACATTTTATT
                                                                                                                                                                                      1033 TATAAAGCAAATAATATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATA
                                                                                                                                                                                                                                                                                                                             Search completed: December 21, 2005, 18:11:42 Job time : 82.4651 secs
                                                                                                                                                                                                                                                                                 16405 ATATCAAATATTATATA 16389
                                                                                                                                                                                                                                                    1093 AACACATGAATATCATA 1109
                                                                                                                                                   셤
                                                                                                                                                                                                               g
                         셤
                                                             ò
                                                                                     셤
                                                                                                                 8
                                                                                                                                                                                      8
                                                                                                                                                                                                                                                  ð
```

```
7, Appli
9, Appli
18, Appl
26, Appl
42, Appl
8, Appli
40262, A
73, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      43708, A
50850, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  13246, A
59603, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1430, Ap
60900, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     43510, A
                                                                                                                                                                December 20, 2005, 13:17:12 ; Search time 48.1106 Seconds (without alignments) 7442.822 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 25, App.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 153, Sequence 7, App
Sequence 9, App
                                                                                                                                                                                                                                                                                                                                             1 tgcacaagcagaatcttcag.......gatgccccaaagcgattttt 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 18,
Sequence 26,
Sequence 42,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 8
Sequence 4
Sequence 7
Sequence 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8336576
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-177-987-25
US-11-102-240-153
US-11-177-987-7
US-11-177-987-8
US-11-177-987-18
US-11-177-987-8
US-11-177-987-8
US-11-177-987-8
US-11-177-987-8
US-11-177-987-8
US-11-177-987-8
US-10-750-185-4026
US-10-750-185-43708
US-10-750-185-31021
US-10-750-185-31021
US-10-750-185-31021
US-10-750-185-31021
US-10-750-185-31021
US-11-113-424-21
US-11-113-424-21
US-110-995-561-13246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             50-185-1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-995-561-504
US-10-995-561-500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4168288 segs, 259477437 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Published_Applications_NA_New:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                 - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                   IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                                     US-09-751-797-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                418
4797
5935
7445
1816
152335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1437
3044
2673
2126
3641
3692
86081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           559.1
118.3
14.5
15.3
16.3
17.5
18.3
18.3
18.3
18.3
18.3
18.3
                                                                                                                                                                                                                                                                                                                Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   676
409.2
407.6
317
258
127.6
126
38.8
36.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score
                                                                                                                 OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database
                                                                                                                                                                      · Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ño.
```

Sequence 509, App	Sequence 505, App	Sequence 503, App	Sequence 501, App	Sequence 25825, A	Sequence 507, App	Sequence 510, App	Sequence 502, App	Sequence 506, App	Sequence 13422, A	Sequence 79484, A	Sequence 13483, A	Sequence 13343, A	Sequence 35688, A	Sequence 27458, A	Sequence 13293, A	Sequence 79723, A	Sequence 169, App	Sequence 64579, A	Sequence 46910, A	Sequence 13484, A	Seguence 53732. A
US-10-995-561-509	US-10-995-561-505	US-10-995-561-503	US-10-995-561-501	US-10-750-185-25825	US-10-995-561-507	US-10-995-561-510	US-10-995-561-502	US-10-995-561-506	US-10-995-561-13422	US-10-995-561-79484	US-10-995-561-13483	US-10-995-561-13343	US-10-750-185-35688	US-10-750-185-27458	US-10-995-561-13293	US-10-995-561-79723	US-10-821-234-169	US-10-750-185-64579	US-10-750-185-46910	US-10-995-561-13484	US-10-750-185-53732
3139 6	2423 6	2578 6	2658 6	2705 6	4247 6	4294 6	4429 6	4871 6	44362 6	201 6	46215 6	83528 6	9 668	1104 6	645179 6	201 6	1877 6	2320 6	2818 6	7858 6	1778 6
3.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	7.5	4.5 44	4.5	4.5 46	10	4.4		64	4.4	4.4			4.4 67	4.4
31	31	31	31	31	31	31	31	31	31	30.8	30.8	30.8	30.6	30.6	30.6	30.4	30.4	30.4	30.4	30.4	30.2
24	52	56	27	c 58	29	30	31	32	33	34	35	c 36	c 37	38	39	۵ 40	c 41	42	43	C 44	45

ALIGNMENTS

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 AATTGTCTGCAATGGCCGCCCTGCAGAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 CCACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 recacaagcagaarcricagaacaggricrcricccagrcaccagrigcricgagriag 60
                                                                                                                                                                                                                                                                                                                                                                                                                          1 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                               .
;
                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 690; DB 7; Length 690; 100.0%; Pred. No. 3.2e-215; ive 0; Mismatches 0; Indels (
        Sequence 25, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100.0
Matches 690; Conservative
                                                                                                                                                                                                                                                                                                                ORGANISM: Homo sapiens
JS-11-177-987-25
                                                                                                                                                                                                                                                                                                                                           US-11-177-987-25
                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                              FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
```

8 6 6 6

d ∂

8 8

g ò S S ò g

```
Sequence 7, Application US/1117987

; Sequence 7, Application US/1117987

; Publication No. US20050271619A1

; GENERAL INFORMATION:

; APPLICANT: Dumoutier, Laure

; APPLICANT: Dumoutier, Laure

; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fact TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

; TITLE OF INVENTION: UNMBER: US/09/626,617

; PRIOR FILING DATE: 12099-10-18

; PRIOR FILING DATE: 1999-10-18

; PRIOR FILING DATE: 1999-0-16

; PRIOR FILING DATE: 1999-10-26

; NUMBER OF EQ ID NOS: 43

; SEQUENCE: THE NOTE OF 
                                                                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601 GAGCAAAAGTAAAAATGAATAAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATG 660
                                                 120
                                                                                                           194
                                                                                                                                                                180
                                                                                                                                                                                                                       254
                                                                                                                                                                                                                                                                                                                                                                                              300
                                                                                                                                                                                                                                                                                                                                                                                                                                               374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    674
134
                                                                                                                                                                                                                                                                                                                                      GAGGCTAGCTTGGCTGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCAC 314
                          61 GCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTC
                                                                                                                                         181 CTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG
                                                                                                                                                                                                                                                                                                                                                                 241 GAGGCTAGCTTGGCTGATAACAACACGACGTTCGTCTCATTGGGGAGAAACTGTTCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAGAGGAATGTGCCAAAAGCTGAAGGACACACTGCAAAAAGCTTGGAGAGAGTGGAGAGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             541 AAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAGCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATG
                                                                                                           CTTCTTGGCCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGG
                                                                                                                                                                                                                       CTIGACAAGICCAACIICCAGCAGCCCIAIAICACCAACCGCACCTICAIGCIGGCIAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAAGCTTGGAGAGAGTGGAGAGATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        555 AAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATATGCAGGAGGTGGCCCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; FEALUNE:
US-11-177-987-7
                                                                                                              135
                                                                                                                                                                      121
                                                                                                                                                                                                                             195
                                                                                                                                                                                                                                                                                                                                            255
                                                                                                                                                                                                                                                                                                                                                                                                                                                        315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         675
  75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                          g
                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                             ঠ
                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ## Sequence 153, Application US/11102240
## Sequence 153, Application US/11102240
## Sequence 153, Application US/11102240
## Sequence 153, Application No. US20050260647A1
## Sequence 154, Application No. US20050260647A1
## Septicant: Goodward, Audrey
## APPLICANT: Goodward, Audrey
## APPLICANT: Grimaldi, Christopher J.
## APPLICANT: Wood, William I.
## APPLICANT: DOWNBER: US/11/102,240
## CURRENT FILING DATE: 2005-04-08
## PRIOR PILING DATE: 2000-08-24
## PRIOR PILING DATE: 2000-08-24
## PRIOR PILING DATE: 2000-08-24
## PRIOR PILING DATE: 199-12-09
## NUMBER OF SEQ ID NOS: 170
## SEQ ID NOS: 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                     ACTICACCCTIGAAGAAGIGCIGITCCCTCAAICIGAIAGGIICCAGCCTIAIAIAIGGG 420
                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGAG 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGGGAAAAAAGCTTGGAG 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541 AGAGTGGAGAATCAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATG 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601 ccrecarricaccagagcaaagcraaaargaaraaraaraacraaccccrrrccracraga 660
                                                                                                                                                                         AGAAACTGTTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGA 360
                                                                                                                                                                                                      ACTICACCCTIGAAGAAGIGCIGIICCCICAAICIGAIAGGIICCAGCCTIAIAIGCAGG 420
                                                                                                                                                                                                                                                                                                                                                                                                    AGGTGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTG 480
  GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATG
                                                                                             TCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGAGGTTCGTCTCATTGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTCAGAACAGGTTCTCCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 98.0%; Score 676; DB 7; Le
Best Local Similarity 100.0%; Pred. No. 1.6e-210;
Matches 676; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661 ATAACAATTAGATGCCCCCAAAGCGATTTTT 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATAACAATTAGATGCCCCAAAGCGATTTTT 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TYPE: DNA
; ORGANISM: Homo Sapien
US-11-102-240-153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                 241
                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          661
                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
```

8

```
Sequence 18, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Dunoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5664
CURRENT APPLICATION NUMBER: US/11/177,987
CURRENT FILING DATE: 2005-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         448
                                                                                                                                                                                                                                       148
                                                                                                                                                                                                                                                                    126
                                                                                                                                                                                                                                                                                                208
                                                                                                                                                                                                                                                                                                                              186
                                                                                                                                                                                                                                                                                                                                                           268
                                                                                                                                                                                                                                                                                                                                                                                         246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCA 508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               999
                                                                                                                                                                                                                                                                                                                                                                                                                                       247 AGATAACAACACAGACGTCCGGCTCATCGGGGGAAAACTGTTCCGAGGAGTCAGTGCTAA 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             366
                                                                                                                                                                                                                                                                                                                                                                                                                      TGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGGGTCAGTATGAG 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC 388
                                                                                                                                                                            88
                                                                                                                                                                                                        99
                                                                                                                                                                                                                                                                                                                 127 GTGGGCCCAGGAGGAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACTGGACCTGCTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGGAGGAGAAGCTAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       367 CCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCAAACTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               caarcagcrccrcrcrcacarcagrcgrcacacagaacarccagaagaarcrcag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACGAAGAACTGCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTT
                                                                                                                                                                                                         ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCAGCTGCTCCTTCTTTGGCCCT
                                                                                                                                                                                                                                                                   Archandagminincochnandegdacminegoogocagoneconochochio
                                                                                                                                                                                                                                                                                                                                                             CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC
                                                                                                                                                                                                                                                                                                                                                                              CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>AAGGCTGAAGGAGACAGTGAAAAAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGA</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTT
                                                                                                                                                                                                                                                                                                  CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                             CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                Gaps
                                                                                                                                              ö
                                                                                                                    Length 1111;
                                                                                                                 Score 407.6; DB 7;
Pred. No. 7.1e-123;
0; Mismatches 159;
                                                                                                                    59.1%;
76.0%;
                                                                                                                  Query Match 59.1
Best Local Similarity 76.0
Matches 503; Conservative
   43
                                                            musculus
   ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            668
                                           TYPE: DNA ORGANISM: MUB
NUMBER OF SEQ
SEQ ID NO 9
LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           £=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 5
US-11-177-987-18
                                                                        ; FEATURE:
US-11-177-987-9
                                                                                                                                                                                                         7
                                                                                                                                                                                                                                        83
                                                                                                                                                                                                                                                                    67
                                                                                                                                                                                                                                                                                                   149
                                                                                                                                                                                                                                                                                                                                                             209
                                                                                                                                                                                                                                                                                                                                                                                         187
                                                                                                                                                                                                                                                                                                                                                                                                                        269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                               à
                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                   임
                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 9, Application US/1117987

Publication No. US20050271619A1

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Renauld, Jean-Christophe

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION UNMERR: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/419,568

PRIOR FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1998-07-16

PRIOR FILING DATE: 1999-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pad
                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        548
                                                                                                                    148
                                                                                                                                                                                                                                                                                                                 249 AGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGAGTCAGTGCTAA 308
                                                                                                                                                                                                                                                                                                                                                                            AGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACGTTCTGCTCCC 368
                                                                                                                                                                                                                                                                                                                                                                                                                                          CCAGTCAGACAGGTTCCAGCCCTACATGCAGGAGGTGGTACCTTTCCTGACCAAACTCAG 428
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAATCAGCTCAGCTCCTGTCACATCAGGGGGGACGACCAGAAAAAATGTCAG 488
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             668
                                                                                                                                                                                                         GTGGGCCCAGGAGGCAAATGCGCTGCCGTCAACACCCGGTGCAAGCTTGAGGTGTCCAA 188
                                                                                                                                                                                                                                                                    CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGCCAGCCTTGC 248
                                                                                                                                                                                                                                                                                                                                                                                                                        TCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAG 448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCA 508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAA 628
                                                                                     68
                                                                               ATCTIGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTTGGCCCT
                                                                                                                                                                            CTTGGTACAGGGAGCAGCTGCCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                        CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGC
                                                                                                                                                                                                                                                                                                  TGATAACAACACACAGGCTTCGTCTCATTGGGGAGAAACTGTTCCACGGAGTCAGTATGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTT
                                                          CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                             TGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCC
                                Gaps
                               ö
   Length 1119;
                               Indels
 DB 7;
                               158;
 Score 409.2; DB 7;
Pred. No. 2.1e-123;
0; Mismatches 158;
                               .
0
 59.3%;
76.1%;
                               Conservative
               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      670
                             504;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -달
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-11-177-987-9
                                                            29
                                                                                                                    89
                                                                                                                                                 69
                                                                                                                                                                                                         129
                                                                                                                                                                                                                                        209
                                                                                                                                                                                                                                                                    189
                                                                                                                                                                                                                                                                                                  569
                                                                                                                                                                                                                                                                                                                                                             329
                                                                                                                                                                                                                                                                                                                                                                                          309
                                                                                                                                                                                                                                                                                                                                                                                                                        389
                                                                                                                                                                                                                                                                                                                                                                                                                                                    369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        699
   Query Match
                                                                                                                                                                             149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            689
                 Best Local
Matches 50
                                                                                셤
                                                                                                            8
                                                                                                                                          요 상
                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                            ઠ
                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
```

```
Sequence 42, Application US/11177987

Sequence 42, Application US/11177987

Sequence 42, Application Wo. US20050271619A1

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

CURRENT FILING DATE: 2005-07-07

PRIOR PELING DATE: 1999-10-18

PRIOR PILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

NUMBER OF EQ. ID NOS: 43

SEQ. ID NO 42

SEQ. ID NO 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     415
                                                                                                                                                                                                                                                            61 AATTGTCTGCAATGGCCGCCCTGCAGAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                                                                                                CCACCAGCTGCCTCCTTCTTTGGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACGCACCT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               149 CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              535
                                                                                                                                                                                                                                                                                                                                                                                   CCACCAGCTGCCTCCTTCTCTTTGGCCCTCTTTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88
                                                                                                                                 9
                                                                                                                                                                                             9
                                                                                                                                                                      1 TGCACAAGCAGAAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         356 crcrccrcrckgrrarcaactrrrgacactrgrgcgarcggrgarggcrgrccrgcagaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89 ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCTGCCTCCTTCTCTTGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            476 grecieccas de accesante de confección de accesa de confección de con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         536 criccadcadcceracarcercaaccecarrirarecreeccaacaaca 585
                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 5935;
Length 4797;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 127.6; DB 7;
Pred. No. 5.1e-31;
0; Mismatches 64;
                             100.0%; Pred. No. 1.2e-73; ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 TCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18.5%;
      37.48;
   Query Match
Best Local Similarity 100.0
Matches 258; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Simi
Matches 166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-11-177-987-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-11-177-987-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    209
                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                            임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6

US-11-177-987-26

US-11-177-987-26

Sequence 26, Application US/11177987

Publication No. US2005021619A1

GENERAL INFORMATION:

APPLICANT: Nemanid, Jean-Christophe

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION UNMER: US/11/177,987

CURRENT FILING DATE: 2005-07-07

PRIOR PELING DATE: 1999-10-18

PRIOR PELING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

LENGTH: 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTGGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATAT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           613
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      181 CAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGGATTTGACC 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 AGAGCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAATAACAATTAGAT 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 434 CCTGGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATAT 493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGCTTGGAGAGAGTGGAGAGT 553
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAGCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGAT 673
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          374 AGAAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  45.9%; Score 317; DB 7; Length 418; 100.0%; Pred. No. 1.6e-93; ive 0; Mismatches 0; Indels
PRIOR APPLICATION NUMBER: US/09/626,617
PRIOR FILING DATE: 2000-07-27
PRIOR APPLICATION NUMBER: US/09/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-07-16
PRIOR PILING DATE: 1998-07-16
PRIOR PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCCCAAAGCGATTTT 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 317; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                     ; FEATURE:
US-11-177-987-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; FEATURE:
US-11-177-987-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         614
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
                                                                                                                                                                                                                                                                                                                                  LENGTH:
```

요

ઠે 셤 ð

셤 ઠે 원 ò g ò

```
87542 AAAAATGGCAGATTCCTGGCCTCCCCAGGACATGATGAATAAGAATCTGTGCTTAGGCT 87601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             437 GGCCAGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCA 496
                                                                                                                                                                           72 AIGGCCGCCCTGCAGAAICTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGC 131
                                                                                                                                                                                                                            330 Arichaecteacheanancrercherranancerenechenanecreachenecenerenerges
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                132 CTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGC 191
                                                                                                                                                                                                                                                                                                                               390 ccccrarriridreagririrarcreaagaagcreaacagcrecacagaaacacrea 449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 300, Application US/10821234
Publication No. US20050255114A1
GENERAL INFORMATION:
APPLICANT: Labat, Ivan
APPLICANT: Andarmani, Susan
APPLICANT: Tang, Y. Tom
TITLE OF INVENTION:
FILE REFERENCE: 821A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       377 AGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: POULSEN, TIM S.
APPLICANT: DULLSEN, KIRSTEN V.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES FILE REFERENCE: 09138.6000-000000
CURRENT APPLICATION NUMBER: US/11/121,086
CURRENT FILING DATE: 2005-05-04
PRIOR PILING DATE: 2005-05-04
PRIOR FILING DATE: 2004-05-04
SOFTWARE: PATENTIN NUMBER: 60/567,570
SOFTWARE: PATENTIN NOT: 107
SOFTWARE: PATENTIN Version 3.3
SEQ ID NO 73
                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   87662 AGAAAGAGAGAGAGAATATGAATATCTCTGCTGGTATTACCTGTA 87711
                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      557 AGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCA 606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 7; Length 152335;
                                                                        Score 38.8; DB 6; Length 1816;
Pred. No. 0.026;
0; Mismatches 67; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 36.4; DB 7; Length 1 Pred. No. 2; 0; Mismatches 121; Indels
                                                                                                                                                                                                                                                                                                                                                                                     192 AGGCTTGACAAGTCCAACTTCCAGCA 217
                                                                                                                                                                                                                                                                                                                                                                                                                                       450 AGAAAAACCTTTTTGTACTTCCAGGA 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 73, Application US/11121086 Publication No. US20050266459A1 GENERAL INFORMATION:
ORGANISM: Bovine 19866880478059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 47.4%;
Matches 109; Conservative (
                                                                        Query Match 5.6%;
Best Local Similarity 54.1%;
Matches 79; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo sapiens
                     US-10-750-185-40262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 152335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-821-234-300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-11-121-086-73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                 8
                                                                                                                                                                                                                         ď
                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                           Sequence 8, Application US/1117987;
Bublication No. US20050271619A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF ILLUG DATE: 2006-07-07
CURRENT PILING DATE: 2006-07-07
PRIOR PILING DATE: 1999-10-18
PRIOR PILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
NUMBER OF SEQ ID NOS: 43
SECOND OF THE PRIOR PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2034 crcrcrcrchartarcharderacacrrangearcrarchargerargargardachagan 2093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTTGGCCCT 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29 CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crrccadcadccgracarcarcaccaccrrrargcrgcccaaggagg 2263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: DENISE, Sue K.

APPLICANT: DENISE, Sue K.

APPLICANT: DENISE, Sue K.

APPLICANT: RICHARD

APPLICANT: ROSENFELD, David

APPLICANT: BATES, Stephen

APPLICANT: BATES, Stephen

APPLICANT: BATES, Stephen

APPLICANT: PANTIN, Dennis

TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS

FILE REFERENCE: MMILLIOO-2

CURRENT APPLICATION NUMBER: US/10/750,185

CURRENT FILING DATE: 2002-12-31

PRIOR FILING DATE: 2002-12-31

PRIOR FILING DATE: 2002-12-31

NUMBER OF SEQ ID NOS: 64922

SOFTWARE: PALENTIN Version 3.1

SEQ ID NO 40262

LENGTH: 1816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 126; DB 7; Length 7445;
Pred. No. 1.9e-30;
0; Mismatches 65; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 40262, Application US/10750185; Publication No. US20050260603A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 18.3%;
Best Local Similarity 71.7%;
Matches 165; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 9
US-10-750-185-40262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-11-177-987-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
```

φ

```
, ORGANISM: Bovine
US-10-750-185-31621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-750-185-43708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1394 CCTCAAGAGAAGAAGGTGCCAGGGCCTGCCCTTCCTGTCTGCTTCTGCTCTGCTCCTGCCCAGT 1335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1334 Actaccidedeccaeccarcericarecideredecadeageageaccaercicedearrecada 1275
                                                                                                                                                                                                                                                                                                                                                                                                                                           1903 ricericcacicaacaaccerricaccaacaacaacracarriricaccaaccaccacc 1962
                                                                                                                                                                                                                                                                                                                                                                                                   343 TGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGCTGTTCCCTCAATCTGATAGGT 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               403 TCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCA 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             104 CCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTGGCCCCTCTTGGTACAGGGAGG 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          164 AGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTA 223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2023 gecrecacarcarcacaraccaacciarccarcaracracrasacacacaccir 2074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            463 CATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCT 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURGALL
JINCTANTION
JAPPLICANT: MING GENONICS, INC.
JAPPLICANT: MING GENONICS, INC.
JAPPLICANT: MAINT SALEAR
JAPPLICANT: ROSENFELD, David
JAPPLICANT: BASEN, BLOBAN
JAPPLICANT: BATES, Stephen
JAPPLICANT: BATES, Stephen
JAPPLICANT: BANTIN, Dennis
JTILE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
JTILE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
JUNEANT FILING DATE: 2003-12-31
JPRIOR FILING DATE: 2003-12-31
JENOR APPLICATION NUMBER: US 60/437,482
JENOR FILING DATE: 2002-12-31
JUNEBER OF SEQ ID NOS: 64922
JENOR PARCHELIN VERSION 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 5.0%; Score 34.4; DB 6; Length 1437; Best Local Similarity 51.3%; Pred. No. 0.61; Matches 80; Conservative 0; Mismatches 76; Indels 0;
                                                                                                                                                                                                                                                                                                    DB 6; Length 3485
                                                                                                                                                                                                                                                                                                                                                 85; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1274 cácreccagaagagécrecgrecagagec 1239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         224 TATCACCAACCGCACCTTCATGCTGGCTAAGGAGGC 259
                                                                                                                                                                                                                                                                                                 5.2%; Score 36; DB 6;
50.6%; Pred. No. 0.31;
tive 0; Mismatches
CURRENT APPLICATION NUMBER: US/10/821,234
CURRENT FILING DATE: 2004-04-07
PRIOR APPLICATION UNMBER: US 60/462,047
NUMBER OF SEQ ID NOS: 1704
SOFTWARE: PL_SEQ_genes Version 1.0
LENGTH: 3485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 43510, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: Bovine 19866880876041
US-10-750-185-43510
                                                                                                                                                                                                                                                                                                                                                 87; Conservative
                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                             Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
US-10-750-185-43510/c
                                                                                                                                                                                                                                                    US-10-821-234-300
                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
```

RESULT 13

```
2287 regrescaecrirerrenarandeceresceracadagecraerracrerrescretada 2228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2227 reaacaacaacaaaadarerecacacaceccascacrerererereresearageere 2168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   76 CCGCCCTGCAGAAATCTGTGAGCTCTTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCC 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               152 GGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACTT 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           92 TGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
Sequence 31621, Application US/10750185

Publication No. US20050260603A1

GENERAL INFORMATION:

APPLICANT: MMI GENOMICS, INC.

APPLICANT: ROBERELD, David

APPLICANT: ROBERELD, David

APPLICANT: ROBERELD, David

APPLICANT: FANTIN, Dennis

TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS

FILE OF INVENTION: COMPOSITION & 60/437,482

CURRENT APPLICATION NUMBER: US 60/437,482

PRIOR FILING DATE: 2002-12-31

PRIOR FILING DATE: 2002-12-31

NUMBER OF SEQ ID NOS: 64922

SEQ ID NO 31621

LENGTH: 3044
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: PATES, Stephen
APPLICANT: PANTIN, Dennis
: TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MMI1100-2
: CURRENT APPLICATION NUMBER: US,10/750,185
: CURRENT FILING DATE: 2003-12-31
: PRIOR APPLICATION NUMBER: US 60/437,482
: FRIOR FILING DATE: 2002-12-31
: NUMBER OF SEQ ID NOS: 64922
: SOFTWARE: Patentin version 3.1
: SEQ ID NO 43308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 4.7%; Score 32.6; DB 6; Length 2673; Best Local Similarity 59.3%; Pred. No. 3.4; Matches 73; Conservative 0; Mismatches 49; Indels 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 3044;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     77; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2167 TATCCAGCCCATCTTGCTCAGCATCTCTTCCCTTCTG 2131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   212 CCAGCAGCCCTATATCACCAACCGCACCTTCATGCTG 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 51.0%; Pred. No. 1.5;
Matches 80; Conservative 0; Mismatches 77;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 43708, Application US/10750185; Publication No. US20050260603A1; GENERAL INFORMATION:
APPLICANT: MI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENPELD, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: Bovine 19866880749669
US-10-750-185-43708
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19866881259754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

```
1531 ArgaagaAgaAaraaAagaArrraCrcrGrGAAAGCGAArrGAGACAGAGGATrrCAGAr 1590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1591 ATTTATTATTACTTCTGGTCTCTTCTTCATACACACACATATGCACATACTTTCATA 1650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        441 AGGCTCAGCAACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGG 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         501 AATGTGCAAAAGCTGAAG----GACACAGTGAAAAAGCTTGGAGAGAGGTGGAGAGATCAA 556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          557 AGCAATTGGAGAACTGGATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGA 616
                                                                                                                                      86 TCCCCTGGGGCCACGTCCTCCAGCCCCGAGCAGGCAGGCCCGGAGGCATGACAGTC 145
                                                                                        136 Trererregecererregracageageageagerececeareagerececeareagereceages 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1651 TTCATGTTCAGAGAATAAGAAGCCACCCTGTTGGAGTAAGACAGAATGTAAATAA 1709
27 CCGACCTCAGGGGCACTGTTCTCGTCTCTGCTGGGGGCTGCTGCCCCCCAGCT-CCTCC 85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           617 GCAAAGCTGAAAAATGAATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGC 675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 50850, Application US/10750185
; Sequence 50850, Application US/10750185
; Publication No. US20050260603A1
; GABERAL INFORMATION:
   APPLICANT: MI GENOMICS, INC.
   APPLICANT: DeNISE, Sue K.
   APPLICANT: BERR, Richard
   APPLICANT: HOLM, Tom
   APPLICANT: MAINON: COMPOSITIONS FOR INFERRING BOVINE TRAITS
   TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
   TITLE OF INVENTION UNMBER: US/10/750,185
   CURRENT FILING DATE: 2003-12-31
   NUMBER OF SEQ ID NOS: 64922
   SOFTWARE PARES
   SEQ ID NOS: 64922
   SOFTWARE PARES
   SEQ ID NOS: 64922
   SOFTWARE PARES
   SEQ ID NOS: 64922
   SEQ ID NOS: 64922
   SEQ ID NOS: 64922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 4.7%; Score 32.2; DB 6; Length 2126; Best Local Similarity 49.0%; Pred. No. 4; Matches 117; Conservative 0; Mismatches 118; Indels 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Search completed: December 21, 2005, 18:11:43
Job time : 49.1106 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: DNA
; ORGANISM: Bovine 19866881174911
US-10-750-185-50850
                                                                                                                                                                                                            TTG 198
                                                                                                                                                                                                                                                                    TGG 148
                                                                                                                                                                                                            196
                                                                                                                                                                                                                                                                    146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                           ò
```

THIS PAGE BLANK (USPTO)

[his Page Blank (uspio)

```
17185, A

3, Appli

3, Appli

6, Appli

17, Appl

29, Appl

29, Appl
                                                                                   December 20, 2005, 13:17:12 ; Search time 542.979 Seconds (without alignments) 15704.028 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5443, Ap
1, Appli
1, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13652,
                                                                                                                                                                              1 tgcacaagcagaatcttcag......gatgccccaaagcgatttt 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 8
Sequence 1
Sequence 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1
Sequence 2
Sequence 3
Sequence 1
Sequence 1
Sequence 1
Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                     2606114
                                                                                                                                                                                                                                                                                                                                                                                                                   lssued Patents NA:*
1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PE_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PE_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/PE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-419-568P-25
US-09-354-243B-25
US-09-178-016-17185
US-09-178-973B-8
US-09-178-973B-8
US-09-134-243B-8
US-09-354-243B-29
US-09-354-243B-29
US-09-354-243B-29
US-09-949-016-190093
US-09-949-016-190093
US-09-354-243B-1
US-09-368P-24
US-09-368-24
US-09-368-24
US-09-368-1
US-09-368-1
US-10-090-365-1
US-10-090-365-1
US-10-090-365-1
US-09-949-016-14193
US-09-949-016-14193
US-09-949-016-12654
US-09-949-016-12654
US-09-949-016-13652
                                                                                                                                                                                                                                                                                    Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                       1303057 segs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUMMARIES
                                                                                                                                                                                                                                                                                                                                                          Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                          - nucleic search, using sw model
                                                                                                                                                                                                          IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                   seq length: 0
seq length: 200000000
                                                                                                                                              US-09-751-797-25
4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    247781
247781
87780
90428
28213
28213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            7445
7445
7445
5935
5935
5935
601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13.6
113.6
112.5
122.5
12.5
12.5
13.6
13.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     132.2
132.2
130.6
130.6
                                                                                                                                                              Perfect score:
                                                                                                                                                                                                           Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        650
650
650
600.6
600.6
                                                          OM nucleic
                                                                                                                                                                                                                                                                                                                 Minimum DB
Maximum DB
                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                       Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                          Database
                                                                                      Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ģ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       υυ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       υu
```

5568, Ap	730, App	9, Appli	9, Appli	9, Appli	'n	150382,	15970, A	40, Appl	7, Appli	7, Appli	7, Appli	3, Appli	16819, A	17422, A	16048, A	13173, A	109843,	14772, A	3, Appli	3. Appli
Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Segmence
US-09-949-002-5568	US-09-949-002-730	US-09-178-973B-9	US-09-419-568F-9	US-09-354-243B-9	US-10-084-298-3	US-09-949-016-150382	US-09-949-016-15970	US-10-090-365-40	US-09-178-973B-7	US-09-419-568F-7	US-09-354-243B-7	US-09-851-896-3	US-09-949-016-16819	US-09-949-016-17422	US-09-949-016-16048	US-09-949-016-13173	US-09-949-016-109843	US-09-949-016-14772	US-09-210-748A-3	US-09-939-581A-3
m	m	m	m	ო	٣	٣	٣	m	m	m	ო	ო	٣	٣	٣	m	m	٣	٣	m
601	131860	1111	1111	1111	1166	601	181251	1050	1119	1119	1119	70000	76399	164061	32881	360470	601	92681	7680	7680
2.7	2.7	2.7	2.7	2.7	2.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	2.5	2.5	2.5	2.5	2,5
129.6	129.6	127.6	127.6	127.6	127.6	126.6	126.6	126	126	126	126	124.4	124.4	124	122.8	121.8	121.4	121.4	121	121
25	56	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	٦,
	υ											υ	υ			υ		υ	o	c

ALIGNMENTS

```
Sequence 25. Application US/09419568F

j Batent No. 6331613

j GENERAL INFORMATION:

j APPLICANT:
    Louched, Jamila

j TITLE OF INVENTION: (TIPS)

j TITLE OF INVENTION: (TIPS)

j TILLE OF INVENTION: (TIPS)

j FILE REFERENCE:
    LUNGHER: 1999-10-18

j PRIOR PELICATION NUMBER: US/09/419,568F

j PRIOR FILING DATE: 1998-10-26

j PRIOR FILING DATE: 1998-10-26

j SEQ ID NOS: 29

LENGTH: 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCATGCTGGCTAAGGAGGTATACATCTCAATCCTGCTTTTCTCGTTGGATCTACTTGGA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 AATTGTCTGCAATGGCCGCCCTGCAGAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCACCAGCTGCCTCCTTCTCTTTGGCCCTCTTTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCACCAGCTGCCTCCTCTTGGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 AATTGTCTGCAATGGCCGCCCTGCAGAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 4797;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 4797; 1
Pred. No. 0;
), Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 4797; Conserv
JS-09-419-568F-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-419-568F-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
```

1411
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
360 360 360 420 420 420 480 600 600 600 600 600 600 1020 1020 1140 1140 1150 1150 11320
11 TOATGCTGGCTRAGGGGGTRATACTCAATCCTGCTCTTTCTGGGGTTTAGGAACCCTCTTTG 12 TATCCCAATGGTTCTTAACTTTTCTGTTTTTTGAGGGTTTAGGAACCTTTTGGGAACTCCTTTG 12 TATCCCAATGGGTTGAGTTTTTCTGTTTTTTTGTTTTTTTT

Db 481 CCCAAAGAGCGGCCATTCAGTAATCCATCTGATGATTTTTTTT	Qy 601 GGGBAGACGGGATGGGGCACATGTCTATGTATAAATTTTTTTTT		e Fa Db 781	Qy 841 IGACCCTTTCGTTTCCCTTCCACCTGCAGATGAGTGAGGCTGCTATCTGATGAAGCAG	Oy 901 GIGCTGAACTICACCCTIGAAGAAGIGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTAT	Oy 961 ATGCAGGAGGTGCCCTTCCTGGCCAGGCTCAGCAACAGGCTAAGCACATGTGTAAGT	Qy 1021 TCAGGTCTCAGGCTATGCCCACCTCCCTTCCCTTCCACAGAGACCCCTTAC D 1021 TCAGGTCTCAGGCTATGCCCACCTACCCCTCCTTCCACAGAGACCCCTTAC	Qy 1081 CCCAACTCTCCTTCCCCCTACCCCTAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAGGAGGG DD 1081 CCCAACTCTCTCTCCCTTCCCTTACCTAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAG	QY 1141 TGTTATCAGAGTCATTGGGATCATAGAGTATTTGCTTTTGCTTTTGAGTCACATC	OY 1201 TTGAGTTTAIAGTGGTGAATGGGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTG 1201 TTGAGTTTAIAGTGGTGAATGGGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTG	QY 1261 TCTTCGGAAAAAGGCAACTCAGGTTGCGTAAGATGAGAAAGGTGTTGGGAAAACATCTA	Qy 1321 GCTGTGGAAATGGATCCATTGAGTTGTTGTTGAGGGGAGGGGATGGCATGGAGAAA 	Qy 1381 ATTAGAAGAAAGTGGGAAATGGGAAGGTTAAAGTCGGTGGTGGCTGGC	Oy 1441 GCCTGTTGATGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACTTGATGCGCTGTAAA Db 1441 GCCCTGTTGATGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACTTGATGCCGCTGAA	Qy 1501 CATTTGAAACTATGAAAAAGTTTGAGTGGAGTGGGCCCAGTAAAAGGCCTTAGGACTT
4621 TTGCATTCTTATTTCACAGCTTGGAGAGTGGAGAGTCAAAGCAATTGGAGAACTGG 4680 4681 ATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAAAAAA 4740 4681 ATTTGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAAGTGA 4740	4741 ATAACTAACCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTTT 4797 	B-25 , Application 6359117 ORMATION:	er, Laure Jamila Jean-Christophe Isolated Nucleic Acid (TIPs)	TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof ELE REFERENCE: LUD 5543.1 CURRENT APPLICATION NUMBER: US/09/354,243B CURRENT FILING DATE: 1999-07-16	PRIOR APPLICATION NUMBER: US09/178,973 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 EQ ID NO 25	LENOTH: 4797 TYPE: DNA ORGANISM: Homo sapiens FEATURE:	.0%; Score 4797; DB 3; Length 4797; .0%; Pred. No. 0;	vative 0; Mismatches 0; Indels 0; Gaps AGBATCTTCAGAACAGTTCTCCCAGTCACCAGTTGCTCGAGTTAG 6	TGCACAGGCAGAATCTTCAGAACAGGTTCTCCTTCCCAGTCACCAGTTGCTCGGGGTTAG	61 AATTGFCTGCAATGGCCGCCCTGCAGAAATCTGFGAGCTCTTTCCTTATGGGGGACCCTGG 120 121 CCACCAGCTGCCTCCTTTGGCCCTCTTGGTACAGGAGGAGGAGCAGCTGCGCCCATCA 180 11111111111111111111111111111111111	GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT	TCATGCTGGCTAAGGAGGTATACATCTCAATCCTGCTCTTTTCTCGTTGGATCTTACTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTGGATCTTTGGATCTTTGGATCTTTGGATCTTTGGATCTTTGGATCTTTGGATCTTTGGATCTTTGATCTTTTTTTT	ATCCAAATAGTTCTTAAACTTTTCTTCAAGAGCATCTCTAAGAGCTTTAGGAACCCACTGT	301 ATCCAAATAGTTCTTAAACTTTTTCTGGAGCATCTCTAAGAGCTTTAGGAACCCACTGT 360 361 TTATCCCTGAGGGTAGATAAATTTTCTGTTTTTTCAGAGACTCTTTGGGAATCTGGCTTT 420 111111111111111111111111111111111111	TTTTTTTTTTTTGAACTTCTTCCTTCCATTTTGGCCTTTATGATACATATGAATTTTT 48

```
USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2527 TICCTICCATITIGGCCTITATGATACATATGATGAATITITTCCCAAAGAGGGGCGCATIC 2586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              320 TITICITICAGAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATA
2407 TITICITCAGAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTAATCCATCTGATGA-TTTTTTTTTTCCTTTATGCCTCTGTGCATTGTTCTAAACTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTTGGCCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        260 ATACATCTCAATCCTGCTCTTTCTCGTTGGATCTTGGAATCCAAATAGTTCTTAAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTCCTTCCATTTTGGCCTTTATGATACATATGATGAATTTTTCCCAAAGAGCGGCCATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2587 AGIAATCCATCTGATGATTTTTTTTTTCCTTTATGCCTCTGTGCATTGTTCTAAACTCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCACACATCTGAATTCTGCTTTTAGTCTTTATGATGTTGCTCTGGGGAGACGGGATGGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2707 CACAIGICTAIGIATAAATTTTTTTTTTTGTATTIGCTCAAIGTCCAGACCCTTAGICTTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTCTCTTCCAGGCTAGCTTGGCTGATAACAACACGAGGACGTTCGTCTCATTGGGGGAGAAAC
                                                                                                                                                                                                                                                                                                                                          CTTGGCCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CACATGTCTATGTATATTTTTTTTTTTTTGCTCAATGTCCAGACCCTTAGTCTTTTC
                                                                                                                                                                                                                                                                                                                                                                                 CCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                 CCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAAGTCCAACTTCCAGCCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGT
                                                                                                                                                                                                                                                                                                                            GAACAGGTTCTCCTTCCCCGGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGC
                                                                                                                                                                                                                                                                                                   Gaps
                ASSOCIATED
OF DETECTION AND
                                                                                                                                                                                                                                                                                                   3;
                                                                                                                                                                                                                                                                         Length 8888
                                                                                                                                                                                                                                                                                                    Indels
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSITILE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSITILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF TELE REFERENCE: CLOO1307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR PILING DATE: 2000-10-20
PRIOR PILING DATE: 2000-10-03
PRIOR PILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-03
PRIOR FILING DATE: 2000-10-06
SERO ID NOS: 207012
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 17185
LENGTH: 8888
                                                                                                                                                                                                                                                                          3,
                                                                                                                                                                                                                                                                                                    4;
                                                                                                                                                                                                                                                                          B
                                                                                                                                                                                                                                                                       Score 4738.6; Fred. No. 0; 0; Mismatches
                                                                                                                                                                                                                                                                          98.8%;
99.9%;
                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 99.9
Matches 4774; Conservative
                                                                                                                                                                                                                      ; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         618
                                                                                                                                                                                                                                                                                                                                20
                                                                                                                                                                                                                                                                                                                                                          2107
                                                                                                                                                                                                                                                                                                                                                                                    80
                                                                                                                                                                                                                                                                                                                                                                                                             2167
                                                                                                                                                                                                                                                                                                                                                                                                                                        140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠ્ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ਨੇ
                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4680
                                                                                                   3960
                                                                                                                            3960
                                                                                                                                                      4020
                                                                                                                                                                                                           4080
                                                                                                                                                                                                                                                                4140
                                                                                                                                                                                                                                                                                                                  4260
                                                                                                                                                                                                                                                                                                                                                                                                                           4320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4560
                                                                                                                                                                                 4020
                                                                                                                                                                                                                                                                             GAATTGTCTTGGTACACACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCA 4140
                                                                                                                                                                                                                                                                                                                                                                                       CTGTCCTGGGCCATGTGCCCTGTGGGCTGCAGGTTGGAAGCTCCTTATAAGTAATC 4260
                                                                                                                                                                                                                                                                                                                                                                                                                                         ATAACTAACCCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTTT 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCCCCAGATCCCAGCTCACTTCAGTCTCCTTGCTCTGGTTAAGAAGGGTGGTCAACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTGCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GTGGCCTCTCAGTCCAGAGAGCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGCATTCTTATTTTCACAGCTTGGAGAGTGGAGAGAGTCAAAGCAATTGGAGAACTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTTGCTGTTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAAAATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATTTGCTGTTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGGCAAAGCTGAAAAATGA
     TCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCATCTGCATTTGACTT
                                                                                                                  GAAAAGACTTATTTGGTATTTTCCCACAAAAGTGAAAACTTTTCTTTTACTGTTTGTCA
                                                                                                                                                                             AAAAGGTGGAAATAGAAAAAGCCTTAATGTATTGGTGAATACATGGTTCAAAGTCATTTG
                                                                                                                                                                                                                         AGTAGAGATGTTTTAAATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                          TGTCATAGATAGTTTTGGAGCTGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCCCCAGATCCCAGCCTCACTTCAGTCTCTGTTTAAGAAGGGGTGGTCAACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTGCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGGCCTCTCAGTCCAGAGAGCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGGATATTACTATGAATGTTTTACAAATGCTTAAAACTCGGTTTCTGTCTCCATCAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TAATCTTGCAATTTCTAATTTGTTCACTTTAGAAAACATGGCATAAATGCTCAAATACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAATCTTGCAATTTCTAATTTGTTCACTTTAGAAAACATGGCATAAATGCTCAAATACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGCATTCTTATTTTCACAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGAACTGG
                                                           AGTAGAGATGTTTTAAATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAA
                                                                                                                                                                                                                                                                GAATTGTCTTGGTACACACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCA
                                                                                                                                                                                                                                                                                                                                                                       CTGTCCTGGGCCATGTGCGCCTGTGGGCTTGGACAAGCTCCTTATAAGTAATC
                                                                                                                                                      AAAAGGTGGAAATAGAAAAAGCCTTAAATGTATTGGTGAATACATGGTTCAAAGTCATTTG
                                                                                                   GAAAAGACTTATTTGGTATTTTTCCCACAAAAGTGAAAACTTTTCTTTTACTGTTTGTCA
                                               GGAGAGAGAAAGAATGAATGTTAGGACCTATATCTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4741
                                                                        3841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4681
                                                                                                                            3901
                                                                                                                                                                                  3961
                                                                                                                                                                                                                                      4021
                                                                                                                                                                                                                                                                                                                     4141
                                                                                                                                                                                                                                                                                                                                                4141
                                                                                                                                                                                                                                                                                                                                                                         4201
                                                                                                                                                                                                                                                                                                                                                                                                                            4261
                                                                                                                                                                                                                                                                                                                                                                                                                                                       4261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4501
                      3781
                                               3841
                                                                                                    3901
                                                                                                                                                        3961
                                                                                                                                                                                                           4021
                                                                                                                                                                                                                                                                4081
                                                                                                                                                                                                                                                                                           4081
                                                                                                                                                                                                                                                                                                                                                                                                   4201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                              8 8 8 8
                                                                                                                                                                                                                                                               B & B &
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                          рp
                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 B 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                  8 & 8
                      유
                                              ઠે
```

259

2406

319

2166

79

ä

2226

139

2286

199

2466

438

379

2526

498

2646

617

557

RESULT 3
US-09-949-016-17185
Sequence 17185, Application US/09949016
Patent No. 6612339
GENERAL INFORMATION:

2826

738 TGTTCCACGGAGTCAGTGTAAGCTACAGTTGTGACGAACAGGGCCGTGTGCCGTCCATGG

678

B

ò

737

797

2766

677

Qy 4037 ATCAGGAGTGTCCA Db 6127 ATCAGGAGTGTCCA Qy 4097 CACATAAAATCAAA Qy 4157 TGTTTTAAGAAAGT Qy 4217 TGTTTTAAGAAAGT Qy 4217 GCGGCCTGTGGGCT Qy 4217 GCGGCTGTGGCT Qy 4217 GGAGCTGCAAAACA Qy 4237 TCACTTCAGTCTCC Qy 4337 TCACTTCAGTCTCC Qy 4457 TCACTTCAGTCTCC Qy 4457 TCACTTCAGTCTCC Qy 4457 GAGGCCTCATTAGT Qy 4457 GAGGCCTCATTTAGT Qy 4547 GAGGCCTCATTTAGT Qy 4547 GAGGCCTCATTT Qy 4547 GAGGCCTCATTT Qy 4547 GAGGCTTCATTTACACTTT Qy 4547 GAGGCCTCATTTACACTTT Qy 4547 ATTTGTTCACTTT Qy 4577 AATTTGTTCACTTT Qy 4577 AATTTGTTCACTTT Qy 4577 ACAGCTTGGAGAAA Qy 4637 ACAGCTTGAGAAA Qy 4637 ACAGCTTGAGAAAA Qy 4637 ACAGCTTGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	RESULT 4 US-09-178-973B-8 Sequence 8, Application US; Patent No. 6274710 GENERAL INFORMATION: APPLICANT: Dumoutier, Lau, APPLICANT: Dumbed, Jamil; APPLICANT: Renauld, Jean! TITLE OF INVENTION: (TIF) TITLE OF INVENTION: (TIF) TITLE OF INVENTION: The FILE REPERENCE: LUD 5543 CURRENT APPLICATION NUMBE; NUMBER OF SEQ ID NOS: 17 SEQ ID NO 8 LENGTH: 7445 TYPE: DNA CORGANISM: Mus musculus US-09-178-973B-8
	3137 AATGCAAATATGATAGATTTCAGTAGGGAATGCTTTTCACTTGAATTTGGG 3796 5827 AATGCAAATATGATAGATTTCAGTAGGGAATGCTTTTCACTTGAATTTGGG 3796 5827 AATGCAAATATGATAAGTTTGGGAATTTCAGTAGGAATGCTTTTCACTTGAATTTGGG 5886 3797 TTTCCTCTTCGATTAAGTTTGGGAATCTCTGCATTTGACTTGCAGAGAAAGAA
8 4 8 4 8 4 8 4 8 4 8 8 8 8 8 8 8 8 8 8	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6

```
973B-8
8, Application US/09178973B
0. 6274710
INPORMATION:
NT: Dumoutier, Laure
NT: Dumoutier, Laure
NT: Louhed, Jamila
NT: Enabld, Jean-Christophe
FINVENTION: (IFFS)
FINVENTION: (TFS)
FINVENTION: (TFS)
FINVENTION: The Proteins Encoded, and Uses Thereof
FREENCE: LUD 5543
APPLICATION NUMBER: US/09/178,973B
FILING DATE: 1998-10-26
OP SEQ ID NOS: 17
ATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACTTGAAAGAATTGTCTTGGTACA 4096
                                                                              4216
                                                                                                  9069
                                                                                                                      4276
                                                                                                                                       6366
                                                                                                                                                          GGAGCTGCAAAACCCGAGGCCAAAGCATAATGGGTGGCACTCGGGATCCCCCAGATCCCCAGGCCCA336
                                                                                                                                                                                                 TCACTTCAGTCTCCTTGCTTAGGAGGGGGGGCAACTCTCTGCCCAGCTTTTAA 4396
                                                                                                                                                                                                                                        ACAGCTTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTGGTGGCCTCTCAGTCCA 4456
                                                                                                                                                                                                                                                                               GAGAGCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAAAGGGATATTACTATGA 4516
                                                                                                                                                                                                                                                                                                                       AIGITITACAAAIGCITAAAACICGGITICIGICICCAICAACCIAAICITGCAAITICI 4576
                                                                                                                                                                                                                                                                                                                                                             4636
                                                                                                                                                                                                                                                                                                                                                                                 6726
                                                                                                                                                                                                                                                                                                                                                                                                     4696
                                                                                                                                                                                                                                                                                                                                                                                                                       6786
                                                                                                                                                                                                                                                                                                                                                                                                                                            4756
                                                                                                                                                                                                                                                                                                                                                                                                                                                              6846
                                                           6246
                                                                                                                                                                                                                                                                                                                                                             ACAGCTTGGAGAGAGAGAGATCAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                          CACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCCATGCATAAATCTCATAC
                                                   CCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTT 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7445
    ~
                                         97
                                                                                23
                                                                                                                      17
                                                                                                                                                             11
                                                                                                                                                                                67
                                                                                                                                                                                                    37
                                                                                                                                                                                                                       27
                                                                                                                                                                                                                                           97
                                                                                                                                                                                                                                                                87
                                                                                                                                                                                                                                                                                  57
                                                                                                                                                                                                                                                                                                     47
                                                                                                                                                                                                                                                                                                                          17
                                                                                                                                                                                                                                                                                                                                            0.7
                                                                                                                                                                                                                                                                                                                                                               17
                                                                                                                                                                                                                                                                                                                                                                                    67
                                                                                                                                                                                                                                                                                                                                                                                                       37
                                                                                                                                                                                                                                                                                                                                                                                                                         27
                                                                                                                                                                                                                                                                                                                                                                                                                                             97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       47
                      27
                                                             87
                                                                                                  47
                                                                                                                                         2
```

	Db 5328 TGACTTTTATACCATGATGAAGAGTGTTTAGGCCCGCTCTCATGGGCCCGGGGGAAACTGTGTGTG	Qy 3522 AGCAGAACGCAGGTTGGTAGTAAAT-GCATGACAGACAGTAGGCACGATAAACTTTAA Db 5486 AACAGTCCAGGGTGGGCTCATGTAATAGAATGGAACAGAGCGAGGAAGATAAGCTACAA Qy 3581 AATTCTTTATAGTCTTGGAGTCTTTGAGATAGAAAAGAATATCTTTTGGCCTTATGTCA Db 5546 AGTTTCATAAGGTC-CGGAGTCTTAAAGATACAAAATAGCTGCTTGGGCTTCATAACA	OY 3641 AAAGAAGTATGGAAAGGTGAAAGGGGGGAAGAAGGAAG	Oy 3749 ATAGATTAGAGAATTTCAGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCTT Db 5723 AGTGCATTAGGTGATTGCAGGGGGACTTGCTTTGAATCTGGGTTTTTGTCTCT OY 3806 CGATTAAGTTTGGGATCCTCATCTGCATTTGACTTTGAAATGAATG	Oy 3862 TAGGACCTATATCTGTTAACTAAGCAAGTGGAAAAGCTTATTTGTATTTGTATTTGTATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTATTTTGTATTTGTATTTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTATTTGTA	3982 3982 5963 4042 6023	4102 AAAATACAAGAACAATAGCTGATGAGCTAAAAAGTCC 6059 TACCTGTCAGGCCGAGCCCTGCTGGCTGCTCGCATCAAA 4162 TAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAA 6119 TCCTGCTAGCACTTAAGACTTAAGAGTTGAGAGCCTTCAAA
	ATTCCCAGCTCTGCAC-TTGCCTAGTGGTAATTACTTTGGCTTGATTAAGTAT TAGGGAAATTTCAGATTCCTATTGACTCGTGTAATTACTTTGGCTTGATTAAGAACA TTGGGAAATTTCCAGTTCCTATTGACTCATGTAATCTGAAGAACATGTTTAAAAACA TTGGGAAAGCCAGTTCCCAGGACCTACATAATCTGAAGAACCATGCATTGAAACTA GAAAAATGCCTATGGGGAAATTTATTTGAAGTCATTTTAGAAGTCATTAATGCTTT		CAAAT TCAAA TCAAA AAGCT		4753 TCAAGCCACTAGTAAGCACCTATCTGCTGTGAGCTATTATATGACTTTACAGCAACAAC 4812 2829 ACCATCATGTGGCCTATTTGGTGAAAGAACA - ACAATGGAAGCTTAGACTAACAATA 2886 4813 ATTGCTGTGTGGCCTCTTTGGGGAAGGGAACGGATAGCAGGGTCAGCTCAGCAGGTAAGTAGAGGAAGGAAGAAGGAAGGAAGGAAGAAGGAAGGAAGGAAGGAAGAAGGAAGAAGGAAGAAGGAAGAAGGAAGAAGAAGGAAGGAAGGAAGAAGGAAGAAGGAAGGAAGGAAGGAAGAAGGAAGAAGGAAGAAGAAGAAGAAGAAGGAAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAAGAAGAAGAAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAAGAAGAAGAAGAAGAAGAAAGAAAGAAGAAAGAAAA	4873 CTGACTTGCCCTAAAGCCAGAGGATGGTTGATACAGAGAAAGTGAGGCTCTTCGCAAG 4932 2946 CAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAA 3005 4933 TGGGTGCTTAAATCAGAAACAGGAAGGCTCCGGTTGATGGAATTATCAGTAAGAT 4992 3006 GCTTAACCTTAATTCCCCCTTTTTCCTCTTTTTAAAAAAGCGTTTCTTCTGAGA 3065	4993 ATCTACCCTTATCTCCTTCTACGAACCTAAATCGTCTTTTTATA 3125 3066 CATCATTAATGAGGGGGGGGGTCTTCTTTGATAATTGAAGGCTTTGTAGTTTTAAA 3125 3066 CATCATTAATGAGTGTGTTCTTCCTTTGATAATTGAAGGCTTTGTAGTTTTTAA 3125 5043 TGTAGGCTGATAAAACACACTTGTTTTCTTTTGAGTGTTCAGGCTTTGTAGATTTTTA 5100 3126 TTGTGAAGCCCAGTTCTCTTGTTAATAGAACTATTATCTAGACATGGAGGCTGAATGTTA 3185

2034 CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAA 2093 89 ATCTGTGAGCTCTTCCTTATGGGACCCTGGCCACCAGCTGCCTCTTTTTGGCCCT 148 2094 ATCTGTGAGTTTTTTCCCTTATGGGACCTTGGCCGCCAGCTGCTTCTCTTTGCCCT 2153 149 CTTGGTACAGGAGGAGGAGCTGCGCCCATCAGCTGCCTGC		2334 GGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAG 2382 389 TTTTTCAGAGACTCTTTGGGAATCTGGCTTTTTTTTTTT	2443 CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCATTTAGAAAGCCA 2500 509 CTGATGATTTTTTTCCTTTATGCCTCTGTGCATTGTTCTAAACTCATGCACCATCTG 568	TACTCCTGAGACCCACTGCGACATACTCTCTAC GTATAAATTTTTTTTTT	689 GCTAGCTTGGCTGATAACAACACAGACGTTCGTCTCATTGGGGAGAAACTGTTCCACGGA 748	809 GGTGGTCATGGTCTTATCCCTTATGACCCTTTCTGTTTCCCTTCCACTGC 868	IGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTCCCTTCCTGGCCATGCTCGTCGCCCTTCCTGGCCATGCAGGAGGTGGTGGTGCTCTTCCTGGCCATGCAGGAGGTGGTACCTTTCCTGACCATGCTCCCCAGTCAGAGGTACCTTTCCTGACCAAGGCTAAGGAGGAGGAGGAGGAGAGAGA	1049 CTCCTTCCTCCTCCACAGAGACCCCTTACCCCAACTCTCTTCCTTC
8 8 8 8 8 8	8 8 8 8	8 8 8 8	4 6 A 8	8 8 8 8	8 6 8	8 6 8	8 8 8	8 8 8
Qy 4222 CTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAATCTGTCATAGATAG	QY 4402 TTCATTAGTGTGAGGTGCACCTGAAATTGATGCTGCTGCTGCTGCTCGTCGCTCCTAGGAGA 4460 bb 6284 TTTATGGGTGTGAAATGCAAGTAATATAGGTAGATGCTGGTCCTTAGGTCAGAAA 6343 QY 4461 GCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAAAGGGATA		TTCTTATTTTCACAGCTTGGAGAGAGTGGAGAATCAAAGCAATTGGAGAACTGGATTTG	Db 6584 CTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	RESULT 5 US-09-419-568F-8 ; Sequence 8, Application US/09419568F ; Patent No. 6331613 ; GENERAL INFORMATION: ; APPLICANT: Dumoutier, Laure ; APPLICANT: Louhed, Jamila ; APPLICANT: Double Jamila	NVENTION: NVENTION: NVENTION: ENCE: LUD : PLICATION OUN NG DATE: 15		Query Match Best Local Si Matches 2644;

4460

6283

4625

4685

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Dumoutier, Jamila
APPLICANT: Dumoutier, Jamila
APPLICANT: Dumoutier, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (IRF8)
TITLE OF INVENTION: (TIF8)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.1
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
NUMBER OF SEQ ID NOS: 29
SEQ ID NOS: 29
SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                                                             TACTATGAATGITITACAAATGCTTAAAACTCGGTTTCTGTCTCCATCAACCTAATCTTG 4568
                                                                                                                                                                                                                                                                                               ccaecricitrcraacriceracerrragaaariceracergrecricaarregririera 6523
                                                                                                                                                                                                                                                                                                                                                                                     CIGITIAIGICICIGABAAIGCCIGCAITIGACCAGAGCAAAGCIGAAAATGAAIAAC 4745
                                                                                                                                                                                                                                                                                                                                                                                                         CTTGGTACAGGGAGGAGCAGCTGGCCCATGCACTGCAGGCTTGACAAGTCCAA 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGTGTCCTTAGGTCAGAAA
                                                                                                                                                                                                                                                                                                                             TTCTTATTTTCACAGCTTGGAGAGAGAGAGAGATCAAAGCAATTGGAGAACTGGATTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    89 ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCAGCTGCCTCCTTCTCTTGGCCCT
                                                       TTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTGGTGGCCT-CTCAGTCCAGAGA
                                                                                                                                                 GCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAAAGGGATA-----T
                                                                                                                                                                                                                                                                   CAATITICT --- AATITIGTTCACTITIAGAAAACATGGCATAAATGCTCAAATACTTTTGCA
                              TCAGTCTCCTTGCTCTGGTTAAGAAGGGGTGGTCAACTCTCTGCCCCAGCTTTTAAACAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                               4746 TAACCCCCTTTCCCTGCTAGAATAACAATTAGATGCCCCAAAGCGATTTTT 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 686; DB 3; Length 7445;
Pred. No. 1.8e-181;
O; Mismatches 1875; Indels 393;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 7445;
   TGGGATACAGTGTGATAATTGA----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 8, Application US/09354243B; Patent No. 6359117; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14.3%;
53.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 14.3
Best Local Similarity 53.8
Matches 2644; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 7445
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-354-243B-8
   6206
                                4342
                                                                                       4402
                                                                                                                    6284
                                                                                                                                                 4461
                                                                                                                                                                               6344
                                                                                                                                                                                                            4509
                                                                                                                                                                                                                                                                     4569
                                                                                                                                                                                                                                                                                                6464
                                                                                                                                                                                                                                                                                                                             4626
                                                                                                                                                                                                                                                                                                                                                                                        4686
                                                                                                                                                                                                                                                                                                                                                                                                                   6584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2094
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                             8 8 8
                                                                                                           g
                                                                                                                                              상
임
                                                                                                                                                                                                   ਨੇ
                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5902
                                                                                                                                                                                                                                                                                                                                             AATTCTTTATAGCCTTTGGAGTCTTTGAGATAGAAAAGAATATCTTTTTGGCCTTATGTCA 3640
                                                                                                                                                                                                                                                                                                                                                            AACCATGTATTATATAGAGGACAATGGTGACAAGGTTTTTTCTTGAAATAATGCAAATATG 3748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATAGATTAGAGGAATTTCAGTAGGGAAŢGCTTTTCACTŢGAATŢTGGGTTTCCTCT---Ţ 3805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TACCTGTCAGGCCGAGCCCTGCTGGCTTCGCACTTAACATCTCCCAGGTCTCAGTATCACT 6118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCATATTTGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTTGCTGGTAGCTTCA 3402
                                                                                                                                                                                                                                                                                                                                                                                                      AAAGAAGTATGGAAAGG-----TGAAAGGGCGGAAGAAAGGAAAAAGGAAA 3688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TICCCACAAAAGIGAAAACTITITITITIACIGITIGICAAAAAGGIGGAAATAGAAAAG 3981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCTTAATGTATTGGTGAATACATGGTTCAAAGTCATTTGAGTAGAGAGTGTTTTAAATCAG 4041
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5963 AGGCAAAAGCCCGACCACATGGGTTGAATGTGGGTCTTTGAGTCAAGGCTTTTGAGTTGAG 6022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----GATCATGGTCAGGTGGAGGGC 6058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAGCTGTCCTGGGCCATGTGCGGC 4221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGATCCCCCAGATCCCAGGCTCACT 4341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAAGAATTGTCTTGGTACACACAT 4101
----TTGTCTTTGGAAAGGTGAAGCGTGTGTGAGAAAAAAGAACTCACAGGAGATGTGTTCT
                                                                                                                                                                                                                                                     CTGTAGGAAAACTTTTTTTTTCCCCTTAAATGCCTATAAATCCACTTTCAGTCAAC---TT
                                                                                                                                  raacrritaracaracrarcacaraaaaaaaagrariraaacccacrcrcaraacricaaa
                                                                                                                                                                                            <u> paaagcaccaaragggaaggaargrirargcrgagaaarcrgaccggaagggaaacrggr</u>
                                                                                                                                                                                                                          CAGAGCTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCTCGTTGGGGGGTAAA
                                                                                                                                                                                                                                                                                  AGCAGAACGCAGGTTGGTAGTAAAAT-GCATGACAGACAGTAGGGGACGATAAACTTTAA
                                                                                                                                                                                                                                                                                                              <u>aacagrecaggerregerreargaaragaarggaacaggegaggaagaraaagaracaa</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>agregarragergarracagegegerrrecrirreccarrreaarcregerrrrrercr</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGATTAAGTTTGGGATCCTCATCTGCATTTGACT - - - TGGAGAGAAAGAATGAATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TAGGACCTATATCTGGTTTTGGTTAAAGCAAGTGGAAAAGACTTATTTGGTATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ------TCTGTGTGTGATTTTCAAGACCTTTAATCCATTTTGAAAGAATCAATT
                                                                                                                                                                 GAAAGCA - CAGGAGGGAGAGCAATGTTGTTCAGAGAAAGATCAACAGGAGAGAAACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ccarrigaderrigaaagcercaccrrrrracccrcgaardaaggaagaaagaaggaggrer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>rangactectraceregagritriacratracecaategaacacreeggacerecr</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCATGCATAAATCTCATACTGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          recreeracitadeacactraceagricaccaactraceaaccarritice------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CACTCATCAATAGTT-----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4282
                                                                         5271
                                                                                                                                                                                            5388
                                                                                                                                                                                                                                                       5448
                                                                                                                                                                                                                                                                                                              5486
                                                                                                                                                                                                                                                                                                                                             3581
                                                                                                                                                                                                                                                                                                                                                                          5546
                                                                                                                                                                                                                                                                                                                                                                                                      3641
                                                                                                                                                                                                                                                                                                                                                                                                                                   5603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3806
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3982
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6164
                                              3297
                                                                                                      3343
                                                                                                                                    5328
                                                                                                                                                                 3403
                                                                                                                                                                                                                          3462
                                                                                                                                                                                                                                                                                    3522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                           엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ያ ይ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ⋧
                                                                                          ઠ
                                                                                                                          q
                                                                                                                                                   중 원
                                                                                                                                                                                                               8 & 8 &
                                                                                                                                                                                                                                                                                                                                     පු පු
                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             8686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                  용
                                                                  g
                                            ò
```

2093

88

44;

2153

1282 A	
6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3 8 3
GTGGGCCCAGGAGGCAATGCGCTGCCAACCCGGTGCAAGGTTTGAGGCTTAAGGTTTCTCAGGCCCAAGGAGGTATACTCCCAGGCCCAAGGAGGCTAAGGTTTCTCTCCAGCAGCCGCACCTTCATGCTGCTGGCCAAGGAGGTATACTCTCAAACTCTCTCT	100 TARGETRAGETRAGETRAGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGEGE

8 6 8 6

MATCCAGCCAGCCTTTCCCGGTGGTGATACTAGTTTTGGTCCATTATATCT 2356 Hilling Hillin
ANTICICAMGECICICATITICCCGGGGGGGGATTATGGTATTAGGTACCTAGGTATTAGGGGGCTTGATTAGGGGATTAGGGGATTAGGGGATTAGGGGATTAGGGGATTAGGGAATTAGGGAATTAGGGAATTAGGGAATTAGGGAATTAGGGAATTAGGGAATTAGGGAATTAGGAATTAGGGAATTAGGGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAATTAGAAATAGAAGA
ATTCCCAGCCTCTGCAGC
222 222 2229 2235 2357 2357 244 2452 2537 2649 3126 3126 3297 3297

5447 5485 3640 3805 5782 5842 5902 5387 3461 | ICTATTATAGAGGACAATGGTGACAAGGTTTTCTTGAAATAATGCAAATATG 3748 3861 TGTATTGGTGAATACATGGTTCAAAGTCATTTGAGTAGAGATGTTTAAATCAG 4041 6227 4401 TGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCGTTGGGGGTAAA 3521 ACCCACCTTCCTACTAAAT-CCATGACAGACAGTAGGGGACGATAAACTTTAA 3580 GTATGGAAAGG-----TGAAAGGGCGGAAGAAGCAGGAAAAGGAAA igrcriciogaagicarceaagicaaagicaaaricaaaagicaaaaacicaaaricrag 5662 ACAAAAGTGAAAACTTTTCTTTTACTGTTTGTCAAAAAGGTGGAAATAGAAAAAG 3981 akakakanggakan di parangan di parangan di parangan parangan sa parangan sa parangan sa parangan sa parangan sa adecegaceacairgarigaargiggererirgagicaageerirrgagirgag 6022 ACAAGAACAATAGCTGATGAGCTAAAAAAGTCCATGCATAAATCTCATACTGTTT 4161 srcadecceadeccidecridecricecacriraacarcreadercreagrareacr 6118 CTATATCTGGTTTTCTATTAACTAAGCAAGTGGAAAAGACTTATTTGGTATTT 3921 rccaarcarreceregaceacereraaaaaaarrererregaeeacacaear 4101 racitiagcacactracaactrcaccaaccrtrititic------ 6163 AGTITIATGAATITICTGTTAGGGTGCATTCAAAGCTGTCCTGGGCCATGTGCGGC 4221 ACAGGCCAAGGCATAATGGGTGGCACTCGGGATCCCCCAGATCCCAGCCTCACT 4341 Da-caggaggaggaggaagtigticagagaaagatcaacaggaggagaactgt rcccccahaakcca------racrachagicaraachag AGTITGGGATCCTCATCTGCATTTGACT ---- TGGAGAGAAGAATGAATGT accaataggggaaggaatgttatgctgagaaatctgaccggcagggaaactggt TTAGAGGAATTTCAGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCT---T racagrengaraarraa-------TCCTTGCTCTGGTTAAGAAGGGGTGGTCAACTCTCTGCCCAGCTTTTAAACAGC

10.0	
3 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	ř
09 4613 CCGTCTTTTTTTAGGGTTTTTGGGAATTAATATAGGTTGAATTGGTTCTTGGTCCTTTGGTCTTTTGGTTGG	Qy 329 GAGCATCTCTAAGAAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG 388

TTTGAATTATCATAATA

```
ATATAGGGCTAATTTCTGGAGTAATAAACACTTAT-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 8
US-09-419-568F-29
Sequence 29, Application US/09419568F;
Patent No. 6331613
; GENERAL INFORMATION:
           2527
                                                       2579
                                                                                                                                                                                             2755
                                                                                                                                                                                                                                         2815
                                                                                                                                                                                                                                                               3081
                                                                                                                                                                                                                                                                                     2873
                                                                                                                                                                                                                                                                                                           3141
                                                                                                                                                                                                                                                                                                                                 2932
                                                                                                                                                                                                                                                                                                                                                         3201
                                                                                                                                                                                                                                                                                                                                                                               2991
                                                                                                                                                                                                                                                                                                                                                                                                     3261
                                                                                                                                                                                                                                                                                                                                                                                                                           3051
                                                                                                                                                                                                                                                                                                                                                                                                                                                  3314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3490
                           g
                                                      5 8
                                                                                                                       셤
                                                                                                                                                               셤
                                                                                                                                                                                            8
                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                    පු
                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                ઠે
                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2667
                                                                                                                            CGCGGCTTTTTCACACGAGAAACTTTATGCTCATCTCTTGTGCTACACACCACCTTTGAT 1917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGICTCCTGAATCCCAAGCCACTTTTCCCGGTGGTGATACAGATTAGTTTTGGTAC 2346
 AATGGCACAGAGCAAAAGTTGAAGGGAAAGAGAAAGATGTGGAGAGGCCTCAATGTTGGGGG 1738
                                                                                                                                                                                                                      TGGTGGAAACTTCAGTAGGATTCCCCAAAGACGAGGACAGCTCTTCTGTAAGGAGGAC
                                                                                                                                                                                                                                                                                                                                              CATGGGTGTGGAGGTTCATAAAGTTTCAGCACAACATTAAGATAGTTATGCTTGTTATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATTAAGTATTTGGGAAA--GCCAATTCCCACCGACCTACATAATCCGAAGAAGCATGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTTAAAAACGGAAAATGCCTATGGCGAAATTTATTTGAAGTCATTTTTGAAGTCATTAA
                      TGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACTTGATGCCGCTGAACATTTGAAAC
                                             TGTGAAAGGTCACTCCTTTTTCCATGTGATGGAGAGTTAAGAAAAATCAGTGTGAGTT
                                                                                        rgargretreagacaceceaactarggeagaciergggagaceterggeairraggga-agg
                                                                                                              1571 GCTTAATTTTCACATGAGATGTTTTATGTACATTTCTTGTTCTAAGCATGCAATTTTCTG
                                                                                                                                                           GAGATACGATTGAGGTTTTATTCCTTACAGAATTTGCATAAACTACTCCGCTCTTTCCAC
                                                                                                                                                                                 GAGGTTAAGCTCAGGTTTCGTTTCT----------ACCGTTCTTGCTAC
                                                                                                                                                                                                         AAATGCAAACCTCAGTAGGATTTCCCAAAGATGAAGAGGGGTCTCTTGTAAGGGAAGTGA
                                                                                                                                                                                                                                                     CTGGATTCTGGCGTCCAAGGGAATTCAAGAGCTCAGGAAATCTAGGTCACTGTTGAAATC
                                                                                                                                                                                                                                                                  AGATATACTGAGGTATTGGGCTCCCACCGGATAAGATTCTGTTAGTGA-GTCTGCTTTTA
                                                                                                                                                                                                                                                                                                                                                                                          TTTTATAGCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                              ACACAGTGAAAAAGGTAGGACTGATAACTGTCAATGCTAAGTCATGCAATAGGAGAGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AATGITGITTTTCTTTCCTTTCTTCCCATCACTTTGTGATTTTTCACTTGATTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gagaritroritrocoración - crroracitrora acaritrorrida cros
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTACCACCAGGGGGATT----ACTITGGTGTCTGTGTATGTAGATATATGTATATATCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GATGTCAGTTTCCAAATCTTGCAAATTGTAGAATTCTAGAACTGGTTGGGATCTTAGCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAATCTGTGTGTCTAAATTT---GTAAGTCACAATTCTGGAGCTAGCAGAAAGCTTAGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GTCTAGTCACATAACCTCAGATTCTGGGGATGGTCAGTGGCAGAGATAGGGCTAGAATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CATTAATTCTTAGGGAAATTTCAGATTCCTATTGACTCATGTAATCTGAAGAAGTACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2467 TGCATTGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGACTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2724 actgatiscrorisaartstaattaaattaaccasaataacaacaaaasassestisses
                                                                  TATGAAAAAAAGTTTGAGTGGAGTGGGCCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGG
                                                                                                                                                                                                                                                                                                 TAGGTCATTGTGGGCAAAATTACTAAGAGCTTTAATTCCAGGTGAATTGTACTGTACCTC
                                                                                                                                                                                                                                                                                                                     aegrcacagcegecaaaaarcacrcacrcrarrccaegreaacegrcacgreccrc
                                                                                                                                                                                                       1691
                                                                                                                                                                                                                                                                                                 1811
                                                                                                                                                                                                                                                                                                                                                                     2137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2167
                                             1739
                                                                  1511
                                                                                        1799
                                                                                                                                     1858
                                                                                                                                                           1631
                                                                                                                                                                                  1918
                                                                                                                                                                                                                              1957
                                                                                                                                                                                                                                                                          2017
                                                                                                                                                                                                                                                                                                                      2077
                                                                                                                                                                                                                                                                                                                                                                                                               2196
                                                                                                                                                                                                                                                                                                                                                                                                                                                             2256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2407
                      1451
                                                                                                                                                                                                                                                    1751
                                                                                                                                                                                                                                                                                                                                              1871
                                                                                                                                                                                                                                                                                                                                                                                           1931
                                                                                                                                                                                                                                                                                                                                                                                                                                       1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2287
                                                                                                                                                                                                                                                                   8 8 8 8
                                                                                                       8 6 8 6 8 6
                                                                                                                                                                                                                                                                                                                                                               8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                               8686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8 8
셤
                    8 6 8 6
                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
```

```
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Jamila
APPLICANT: Loubed, Jamila
APPLICANT: Loubed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/09/419, 568F
CURRENT FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US/09/354, 243
PRIOR APPLICATION NUMBER: US/09/178, 973
PRIOR APPLICATION NUMBER: US/09/178, 973
PRIOR APPLICATION NUMBER: US/09/178, 973
PRIOR PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2814
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATTTTCAGTAACAAGCTTAACCTTAATTCCCCCTTTTTCCCCTCTTGACTTTTTAAAAA 3050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTITICIAGITITIAAATIGIGAAGCCCAGITCTCTTGTTATAGAACTATTATTAGACATG 3170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cririccacarrircacrecreceacricrier--racaccerricriacerricacaec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3430 TGGGCTTGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCCTGTGTAAAAGGTTAT 3489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AATTATCAGTAAGATATCTACCCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313
                                                                                                                                                                                                                                                                                                 reretattraecrecerattraagatraagacaeaagagregaraactreceaartraecre
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3021 rciricacacicicarcaaccaciratraagcacciarcraccagcaaciraraaraacr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rererecircirionaria a concara a construita de la construita del construita della construita della construita
2635 ATACAGGTTCAAATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGAATTGGTAAGCTTTTTTTTTCTTCCTCTCCCATCAAGACCTTCCATTTTAGTTTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2964 TGAGTTGGAAACC---CTTTCCTTACTTTTACCTTCATTTCTTAGTTATTATTTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCTTCACTCCCTCAACAATCCCTAGGGAGCATTTATCCATGGTGGGCTGGTGTACATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTATAGTGAATGATACCATCATGTGGCCTATTTGGTGAAAAGAACA--ACAATGGAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TIACAGCAAACAACATTGCTGTGTGGCCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTAGACTAACAA-TAGTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GACGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gagecrerreacaaeregererreagraareagaaaeagaagecreregreares
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCGTTTCTTCCTGAGCATCATTTAATGAGTGACTGTTTCTTCCTTTGATAATTGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GAGGGCTGAATGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAT
                                                                                                                                                            TCT---ATCAGATATTGATTATAGTTTAAAAGCAAGAGAGACAAC-CCCGATCTCTTTT
```

```
1931
                                                                                                                                                1499
                                                                                                                                                                                                                                                                                                                                                                                                1957
        989
                      1259
                                     1049
                                                    1319
                                                                    1109
                                                                                                   1162
                                                                                                                1439
                                                                                                                                                              1282
                                                                                                                                                                              1559
                                                                                                                                                                                             1339
                                                                                                                                                                                                            1619
                                                                                                                                                                                                                           1399
                                                                                                                                                                                                                                                         1451
                                                                                                                                                                                                                                                                                      1511
                                                                                                                                                                                                                                                                                                                                                    1631
                                                                                                                                                                                                                                                                                                                                                                   1918
                                                                                                                                                                                                                                                                                                                                                                                  1691
                                                                                                                                                                                                                                                                                                                                                                                                                1751
                                                                                                                                                                                                                                                                                                                                                                                                                                2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                              8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                           2 8 2 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                           8 6 8 6
                                                                                                                                                                                        8 G
                                                                                                                                                                                                                     장염
                                                                                                                                                                                                                                                       र्व क्षे
                                                                                                                                                                                                                                                                                                 8 & 8
                                                                                                                                                                                                                                                                                                                                             8
        6 6 6 6 6
                                                                               8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1082
                                                                                                                                                                                                                                                                                                                                                                                                                                808
                                                                                                                                                                                                                                                                                                                                                                                                                       748
                                                                                                                        475
                                                                                                                                         208
                                                                                                                                                 GTGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA 535
                                                                                                                                                                                                                                                                                                                                                                         TACTC-------CTGAGACCCACTGCGGACATACATCTTAC 916
                                                                                                                                                                                                                                                                                                                                                                                                         975
                                                                                          AATCCTGCTCTTTCTCGTTGGATCTACTTGGAATCCAAATAGTTCTTAAACTTTTTCTTCA 328
                                                                                                                                                                                                                                   GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG 388
                                                                                                                                                                                                                                                  703
                                                                                                                                                                                                                                                                            ACTCTTTAAGGACTGGATCTTTTTCTATTTCAAGGTCTCAGGACCATTTCCTAT 763
                                                                                                                                                                                                                                                                                                              821
                                                                                                                                                                       CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC 268
                                                                                                                                                                                                                    rererreciencearaceserrecearreceresasses ess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTTGGCCTTTATGATACATATGATTTTTCCCAAAGAGGGGCCATTCAGTAATCCAT
                                                                                                                                                                                                                                                                                                                                                                                                  THACAGGCTTTTCTTCCATCCTTGTCACCCAGGCACTTAGGGTTTTC-TCTCTTTCAG
                                                                                                                  -----CTTTAGAG
                                                                                                                                                                                                                                                                                                               CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCGTTT--AGAAAGCCA
                                                                                                                                                                                                                                                                                                                            CTGATGATTTTTTTTTCCTTTATGCCTCTGTGCATTGTTCTAAACTCATGCACACACTCTG
                                                                                                                                                                                                                                                                                                                                            cecaccaciacaaractriccarectrorioridenticircinaactricarectringe
                                                                                                                                                                                                                                                                                                                                                           AATTCTGCTTTTAGTCTTTATGATGTTGCTCTGGGGAGACGGGATGGGGCACATGTTTAT
                                                                                                                                                                                                                                                                                                                                                                                          GTATAAATTTTTTTTTTTTTGCTCAATGTCCAGACCCTTAGTCTTTTCTTCTTCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                        GCTAGCTTGGCTGATAACAACACACACGTCGTCTCATTGGGGAGAAACTGTTCCACGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTCAGTGTAAAGCTACAGTTGTGACGAACAGGGCCGTGTGCCGTCCATGGGTACTTGGGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGTGGTGATGGTTTAGGTCTTATCCCTTATGACCCTTTCTGTTTCCCTTCCACCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                 ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCT
                                                                            CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                              Gaps
                                             Score 650; DB 3; Length 5935;
Pred. No. 2.1e-171;
0; Mismatches 1285; Indels 152;
                                                                                                                                                                                                                                                 ĠCTTTATCTCCGCÀĠĠŤCŤCACTÁĊĊTĂTGTŤŤTCŤGTĊŤ-
                                             13.6%;
56.5%;
                                            Query Match
Best Local Similarity 56.5
Matches 1863; Conservative
                musculus
        TYPE: DNA
ORGANISM: Mus m
FEATURE:
                       ; FEATURE:
US-09-419-568F-29
LENGTH: 5935
                                                                                                                                                                                                                                                                                                               764
                                                                                                                         416
                                                                                                                                                                                                     569
                                                                                                                                                                                                                    969
                                                                                                                                                                                                                                                                               704
                                                                                                                                                                                                                                                                                                                                                             269
                                                                                                                                                                                                                                                                                                                                                                           882
                                                                                                                                                                                                                                                                                                                                                                                                         917
                                                                                                                                                                                                                                                                                                                                                                                                                                        916
                                                                                                                                                                                                                                                                                                                                                                                                                                                      749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1139
                                                                                                                                                                                      536
                                                                                                                                                                                                                                   329
                                                                                                                                                                                                                                                                 389
                                                                                                                                                                                                                                                                                               449
                                                                                                                                                                                                                                                                                                                                            822
                                                                                                                                                                                                                                                                                                                                                                                          629
                                                                                                                                                                                                                                                                                                                                                                                                                        689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1083
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 929
                                                                            29
                                                                                                           89
                                                                                                                                         149
                                                                                                                                                        476
                                                                                                                                                                       209
                                                                                                                                                                                                                                                                                                                              509
                                                                                                                                                                                                                                                  959
                                                                                                                                    ద
                                                                                                         8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                            ð
```

1338 1398 1630 2195 2050 1618 1678 AAAIGCAAACCICAGIAGGAITITCCCAAAGAIGAAGAGGGGGTCTCTIGIAAGGGAAGTGA 1750 TGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACTTGATGCCGCTGAACATTTGAAAC 1510 TATGAAAAAAGTTTGAGTGGAGTGGGCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGG 1570 GAGGTTAAGCTCAGGTTTCGTTTCT--------ACCGTTCTTGCTAC 1956 geadescercadeaceaceacearearadesceaciricaaaradereacaageeriridde 1438 ATCATAGAGTATTTGCTTTTGACTGAGTCACATCTTGAGTTTATAGTGGTGAATG 1221 ricaarrgagraaracirirgagirirgrafrakiraagcrirarrirgrrirarccarggaa 1498 AGAAATCAACTCAAATTCTGTAGGATGAGAAGATGTTGGGAACGAAAAAAAGGCCTAGAT 1558 AAATGGGAAGGCTTAAAGTCGGTGGTGGTCGCCAGACTGTTGCCC-----TGTTGA 1450 rereaaagercacretrrrecarereareaagagriraagaaaaareagrerereagrr 1798 rgargretreagaeaececeaaerarggeagaergreggagaeerggearrraggga-agg 1857 ceceecititicacacadaaacitiaiecrcaiciticieieciacaciccecaccitigar 1917 1571 GCTTAATTTTCACATGAGATGTTTTATGTACATTTCTTGTTCTAGCATGCAATTTTCTG AGATATACTGAGGIATTGGGCTCCCACCGGATAAGATTCTGTTAGTGA-GTCTGCTTTTA criccrcrrcrarrccagraadaacccagacgrccrccrcrcrcrrcracaagagaga CTGGATTCTGGCGTCCAAGGGAATTCAAGAGCTCAGGAAATCTAGGTCACTGTTGAAATC CATGGGTGTGGGAGGTTCATAAAGTTTCAGCACAACATTAAGATAGTTATGCTTGTTATTG TTTTATAGCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGG 1811 TAGGTCATTGTGGGCAAATTACTAAGAGCTTTAATTCCAGGTGAATTGTACTTC aeercacaecedecaaaaangacheaaceccrcrarrccaeergaaceercacerec CICCTICCCICCTICCACAGAGCCCCTIACCCCAACICICICICCCTICCCCTACCCC TTGAGTCTAAGTTGTTGAGGGGAGGGATGGCATGGAGAAATTAGAAGAGAAAGTGGG AATGGCACAGAGCAAAAGTTGAAGGGAAAAAAGATGGAGAGGCCTCAATGTTGGGGG GGCTCAGCAACAGCACATGTGTAAGTTCAGCTCTCAGCCTATGCCCACCTACCC AACTCAGCAÁTCAGCTCAGCTCCTGTAÁGTCTGGCTCTGGCTACCTATGCTCCTCT GGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTGTCTTCGGAAAAAAGGCAACTC AGGTTGCGTAA---GATGAGAAAGGTGTTGGGAAAACATCTAGCTGTGGAAATGGATCCA GAGATACGATTGAGGTTTTATTCCTTACAGAATTTGCATAAACTACTCCGCTCTTTCCAC TAAGCTAGCAGGAAGAGTGTCTTGGCAGCAGTGTTATCAGGAGTCA-

2316 GGGAȚITCȚITCTCTGCTTCCAGTĊT - CTTCTĂĊŢTĠTACATȚITCTŢĠACŢTGT 2373 2111 CTACCACCAGGGCGATT ACTTTGGTGCTCTGTATGTACATTTTCTŢTĠACŢTGT 2166 2374 CTACTGTCTGTCTCATTACTCACTTGCTCACTGCATCTGGGTCTTAGATCTT 2433 2167 GATGTCAGTTCCAATTCTGCAATTGTAGATTCTGGACTGTAGATCT 2226 2277 GATGTCAGTTCCAATTCTGCAATTCTGGACTTGGATAGGTCTAGATC 2490 2277 GATGTCACTTAGATTTT GTAGTCACATTCTGGAGCTGAAAGCTTAGATC 2490 2287 GATGTCACTTAAATTT GTAGTCACATTCTGGAGCTAGAAAGCTTAGATC 2346 2491 AGCCAGTCACAAATTCTGGAGATGGCATGGCAGAAAGCTAGAAAGC 2550 2287 GATGTCACTAAAATTT GTAGGAGATGGCATGGAAAAGGAAAAGAAAGAAAAAAAAA	Oy 3171 GAGGGCTGARTGTTAGCAGGCAGCTTTAGAATAT 3230 Db 3430 TGGGCTGARTGTTAGCAGCACACACTTCGAAAGGTTAT 3489 Oy 3231 TACTGATTTCATCTTGTTTTAGAAAGGTTAT 3200 Db 3490 TATCGATTTCATCTTGTTTTAGAAAGGTGAAGGCTGAAAAGGTTAT 3200 Db 3490 TATCGATTTCATCTTGTCTTTAGAAAGTGAAGGTGAAAAGTTCA 3201 RESULT 9 'S GQUENCE 29, Application US/09354243B 'S GQUENCE 29, Application US/09354243B 'S PALENT NO. 633917 'S RENERAL INFORMATION: APPLICANT: Dumoutier, Laure APPLICANT: Dumo
2579 TCTATCAGATATTGATTATAGGTAGAGGAGAGAC-CCCGATCTTTT 2634 2844 TGTCTATTTAGCTGCTATTAGGTTAAAGAGAGAGAGAGAG	Done 17 March 13.6%; Score 650; DB 3; Length 5935; Best Local Similarity 56.5%; Pred. No. 2.10-171; Best Local Similarity 56.5%; Pred. No. 2.10-171; Best Local Similarity 29. CONCENTRATIVE 0.00

```
Sequence 190093, Application US/09949016
; Sequence 190093, Application US/09949016
; Sequence 190093, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
    APPLICANT: VENTER, J. Craig et al.
    TITLE OF INVENTION: POLYMPRENIEMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: 60/241,755
PRIOR PELING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/231,768
; PRIOR FILING DATE: 2000-10-03
; RUMBER OF SEQ ID NOS: 207012
; SOFTWARE: PastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2485
                                                                                                                                                                                 2125
                                                                                                                                                                                                                                                                                                            2185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2486 GAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGACTTGCATATAGGGCTAATTTCTGG 2545
                                                                                                                                                                                                                                                                                                                                                                                                                                   2186 TGCAAATTGTAGAATTCTAGAACTGGTTGGGATCTTAGCTTGTCTAGTCACATAACCTCA 2245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3299 TGTGTGATTTTCAAGACCTTTAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGG 3358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2246 GATTCTGGGGATGGTCAGTGGCAGAGATAGGGCTAGAATGCAGGTCTCCTGAATCCCAAG 2305
                                                                                                                                                                                                                                                  422
                                                                                                                                                                                                                                                                                                                                                                      362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   241 CCAGCACTTTTCCCGGTGGTGATACAGATTAGTTTTGGTACCATTAATTCTTAGGGAAAT 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 crarececaaarrrarrreaagrearrrraaagrearraarecarreaaacrre 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 GAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGACTTGCATATAGGGCTAATTCTGG 2
                                                                                                                                                                                                                           481 TCCTTTCTTCCTTCCCATCACTTTGTGTTTTTCACTTGATTCTCCCTACCAGGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301 SATICTGGGGATGGTCAGTGGCAGAGATAGGGCTAGAATGCAGGTCTCCTGAATCCCAAG
601 AAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCAGCACTITICCCCGGTGGTACAGATTAGTTTTGGTACCATTAATTCTTAGGGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181 TICAGATICCIATIGACICATGIAATCIGAAGAAGIACTICTITAAAAACAGAAAATGC
                                                                                                                 541 TAGGACTGATAACTGTCAATGCTAAGTCATGCAATAGGAGAGACAAATGTTGTTTTTCTT
                                                                                                                                                                                                                                                                                                            TTACTTTGGTGTCTGTGTATGTAGATATATCTATATATCTAGATGTCAGTTTCCAAATCT
                                                                                                                                                                                                                                                                                                                                                   TTACTTTGGTGTCTGTGTATAGTAGATATATCTATATATCTAGATGTCAGTTTCCAAATCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTCAGATTCCTATTGACTCATGTAATCTGAAGAAGTACTTGTTTAAAAACAGAAAAATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTATGGGCAAATTTATTTGAAGTCATTTTTGAAGTCATTAATGCATTGCTTTGAAACTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 601;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 600.6; DB 3;
Pred. No. 3.8e-158;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 99.89
Matches 600; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2546 A 2546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , ORGANISM: Human
US-09-949-016-190093
                                                                2006
                                                                                                                                                                                    9907
                                                                                                                                                                                                                                                                                                               2126
                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                      ò
                                                                                                                 유
                                                                                                                                                                                    8
                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 190092, Application US/09949016
; Sequence 190092, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF;
; FILE REFERENCE: CL000.30.7
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR PELING DATE: 2000-10-20
; PRIOR PELING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-0-0-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 190092
; LENTH: MADEL OF THE OFFICE 
                                                                                                                                                                                                                                                                                                                                                                                                                                                    3141 TCAGGCTAGCAAGTCTGGACTCAACCTAAAGCCAGAGGCATGGTTGATAGCAGAGAAAGT 3200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAGGCTCTTCACAAGTGGGTGTGCTTAAGTAATCAGAAACAGGAAGGCTCTGGTTGATGG 3260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                            3081 TTACAGCAAACAACATTGCTGTGTGGCCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGC 3140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCGTTTCTTCCTGAGCATCATTTAATGAGTGTGACTGTTTTCTTCCTTTGATAATTGAAGG 3110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3171 GAGGGCTGAATGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAAT 3230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AATTTTCAGTAACAAGCTTAACCTTAATTCCCCCTTTTTTCCCTCTTGACTTTTTAAAAA 3050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATTATCAGTAAGATATCTACCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rcrcrccrrcrigrereraegcrearaacacecrecricr--rrcrrrreagrerrcaree 3371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTTGFAGTTTTAAATTGFGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATG 3170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGT--TAGAGGGTTTGTTACCTTGACACC 3429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TATTCATTTACT-----TTGTCTTTGGAAAGGTGAAGGTGTGTGTGTGAAAAAAAGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGAGTTGGAAACC - - CTTTCCTTACTTTTACCTTCATTTCTTAGTTATTATTTTTT
                                                                                                                                                                                                                     3021 TCTTCACACCCTGATCAAGCCACTAGTAAGCACCTATCTGCTGCGAGCTATTATATGACT
                                                                                                                                                                                                                                                                                                                                                                                                          TTAGACTAACAA-TAGTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GACGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1946 AAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGG
                                                                                                                                                           CCTTCACTCCCTCAACAAATCCCTAGGGAGCATTTAATCCATGGTGGGCTGGTGTACATTT
                                                                                                                                                                                                                                                                                     CTATAGTGAATGATACCATCATGTGGCCTATTTGGTGAAAAGAACA--ACAATGGAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 600.6; DB 3;
Pred. No. 3.8e-158;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.5%;
99.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: DNA
; ORGANISM: Human
US-09-949-016-190092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Simi
Matches 600;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3231
                                   2695
                                                                                                2964
                                                                                                                                                           2755
                                                                                                                                                                                                                                                                                  2815
                                                                                                                                                                                                                                                                                                                                                                                                      2873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3490
```

8 6 6 6

8 4 8 4 8

ò

q

ò g 8 셤

8 6 ઠે

```
US-00-354-243B-24

; Sequence 24, Application US/09354243B
; Patent No. 6535117
; Patent No. 6535117
; GENERAL INFORMATION:
; APPLICANT: Dumoutier, Laure
; APPLICANT: Dumoutier, Laure
; APPLICANT: Dumoutier, Jamila
; APPLICANT: Renauld, Jamila
; APPLICANT: Renauld, Jamila
; APPLICANT: Renauld, Jamila
; APPLICANT: Renauld, Jamila
; TITLE OF INVENTION: (TIF8)
; TITLE OF INVENTION: (TIF8)
; TITLE OF INVENTION: (WO) 933.1
; CURRENT APPLICATION NUMBER: US/09/354,243B
; CURRENT APPLICATION NUMBER: US/09/178,973
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 29
; SEQ ID NO 24
; LENGTH: 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           240
                                                                                                                                                         GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT 240
                                                                                                                                                                                                                                         240
                                                                   120
                                                                                                  120
                                                                                                                                    CCACCAGCTGCCTCCTTCTTTGGCCCTTTTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                9
 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 CCACCAGCTGCCTCCTTTGGCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCA
                                                                   61 AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121 CCACCAGCTGCCTCCTTCTCTTGGCCCTTTGGTACAGGGAGGAGCAGCTGCGCCCCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGGTCTTTTCCTTATGGGGACCCTGG
                   1 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                             GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACGCCT
 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 690;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5.4%; Score 258; DB 3;
100.0%; Pred. No. 9e-62;
ative 0; Mismatches 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Sequence 5443, Application US/09949016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241 TCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                           241 TCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rcargereceraaggagg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 100.
Matches 258; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 14
US-09-949-016-5443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-354-243B-24
                                                                                                     61
                                                                                                                                       121
                                                                                                                                                                         121
                                                                                                                                                                                                           181
                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                         g
                                                            8 3
                                                                                                                                                                요
                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                  D
                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 24, Application US/09419568F

Sequence 24, Application US/09419568F

Sequence 24, Application US/09419568F

Sequence 24, Application US/09419568F

Sequence 24, Application

APPLICANT: InvoRMATION:

APPLICANT: Louhed, Jamila

TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: (TIF8) The Proteins Encoded, and Uses Thereof

FILE REPERBENCE: 109 543.2

CURRENT APPLICATION NUMBER: US/09/119,568F

CURRENT FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-16

PRIOR FILING DATE: 1998-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NO 24

LENGTH: 690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                 GAAAGGGCGGAAGAAAGCAGGAAAAGGAAGAACCATGTATTATATAGAGGACAAATGGTGA 3718
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAAGGTTTTTCTTGAAATAATGCAAATATGATAGATTAGAGGAATTTCAGTAGGAATGC 3778
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTTTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCATCTGCATTTGAC 3838
                                                                                                                                                                                           GGGTGGTTTTTGGGAGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAGAACGCAGGTTGG 3538
                                                                                                                                                                                                                                                             TAGTAAAATGCATGACAGACAGTAGGGGACGATAAACTTTAAAATTCTTTATAGTCTTGG 3598
                                                                                                                                                                                                                                                                                                                                 AGTCTTTGAGATAGAAAATATCTTTTGGCCTTATGTCAAAAGAAGTATGGAAAGGT 3658
                                                                                                                                                                                                                                                                                                                                                                                                                        CAAGGITITICITGAAATAAFGCAAATATGATAGATTAGAGGAATTTCAGTAGGAATGC 122
                                                                                                                                                                                                           361 TAGTAAAATGCATGACAGACAGTAGGGGACGATAAACTTTAAAAATTCTTTATAGTCTTGG 302
                                                                                                                                                                                                                                                                                                                                                 301 RGTCTTTGAGATAGAAAAGAATATCTTTTTGGCCTTATGTCAAAAGAAGTATGGAAAGGT 242
                                                                                   541 TTGCCATGTGGAAGAGTGATTATGCTTTTTTTGCTGGTAGCTTCAGAAAGCACAGGAGGA 482
                                                                                                                                                       481 GAGCAATGTTGTTCAGAGAAGATCAACAGGAGGAGAAACTGTCAGAGCTGTCTGAAATA 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121 TITICACITGAATITGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCATCTGCATTTGAC
GAGCAATGTTGTTCAGAGAAGATCAACAGGAGGAGAAAACTGTCAGAGCTGTCTGAAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
5.4%; Score 258; DB 3; Length 690;
Best Local Similarity 100.0%; Pred. No. 9e-62;
Matches 258; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T 3899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 12
US-09-419-568F-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-419-568F-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3899
                                                                                                                                                                                             3479
                                                                                                                                                                                                                                                               3539
                                                                                                                                                                                                                                                                                                                                 3599
                                                                                                                                                                                                                                                                                                                                                                                                     3659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3719
                                                     3359
                                                                                                                         3419
                     601
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ď
                                                                              8 & 8
                                                                                                                                                                                중 음
                                                                                                                                                                                                                                                  දු පු
                                                                                                                                                                                                                                                                                                                          8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                   ठ
```

```
APPLICANT: Aggarwal.Sudeepta
APPLICANT: Aggarwal.Sudeepta
APPLICANT: Xie,Ming-Hong
APPLICANT: Maruoka, Bllen M.
APPLICANT: Maruoka, Bllen M.
APPLICANT: Maruoka, Bllen M.
APPLICANT: Foster.Jessica S.
APPLICANT: Goddard, Audrey
APPLICANT: Wood, William I.
TITLE OF INVENTION: THE SAME AND METHODS FOR THE TREATMENT OF PANCREATIC DISORDERS
FILE REFERENCE: P2806-1(US)
CURRENT APPLICATION NUMBER: US/09/870,574
CURRENT APPLICATION NUMBER: US/09/870,574
CURRENT PILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR PILING DATE: 2000-05-22
PRIOR FILING DATE: 2000-08-24
NUMBER OF SEQ ID NOS: 7
SEQ ID NOS: 7
LENGTH: 1152
FALCHIAN OF SELECTOR 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTC 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCCCACTGCAGGCTTGACAAGTCCAACATTCAGCAGCCCTATATCACCAACACGCACTTC 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTGTCTGCAATGGCCGCCCTGCAGAATCTGTGAGCTCTTTTCCTTATGGGGACCCTGGCC 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TIGHTHING CCCCCCTCCACAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCC 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGC 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 CACAAGCAGAATCTTCAGAACAGGTTCTCCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 689;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5.3%; Score 256; DB 3; I
100.0%; Pred. No. 3.3e-61;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; Sequence 1, Application US/09870574
; Patent No. 6551799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 243 ATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
APPLICANT: Gurney, Austin L.
APPLICANT: Aggarwal, Sudeepta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 5.3
Best Local Similarity 100.
Matches 256; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Human
US-09-949-016-5443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
```

```
ö
                                                                                                                                                                                                                                                                                                             61 GCCGCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTC 120
                                                                                                                                                                                                                                                                                          135 CTICTCTTGGCCCTCTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGG 194
                                                                                                                                                                                                                                                                                                                                                                  195 CTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 254
                                                                                                                                                                                                                  75 GCGGCCCTGCAGAAATCTGTGAGCTCTTTATGGGGACCCTGGCCACCAGCTGCCTC 134
                                                                                                                                                                                1 CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATG 60
                                                                                                                                              15 CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATG
                                                                                                          Gaps
                                                                                                          ö
                                                                       Length 1152;
                                                                                                          Indels
                                                                                                          ö
                                                                    Query Match 5.1%; Score 244; DB 3; 1
Best Local Similarity 100.0%; Pred. No. 1.1e-57;
Matches 244; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               December 20, 2005, 21:41:26
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-870-574-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Search completed: Decemdob time: 580.979 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                          255 GAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 GAGG 244
                                                                                                                                              8
                                                                                                                                                                                셤
                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                  ò
```

THIS PAGE BLANK (USPTO)

This Page Blank (uspto)

us-09-751-797-25.rnpbm

```
Sequence 25, Appl
Sequence 687291,
Sequence 687291,
Sequence 118181,
Sequence 8, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 208140,
Sequence 208141,
Sequence 208141,
Sequence 208141,
Sequence 208141,
Sequence 170359,
Sequence 170359,
Sequence 170359,
Sequence 24, Appl
Sequence 24, Appl
Sequence 24, Appl
                                                                                         December 20, 2005, 13:17:16; Search time 2399.07 Seconds (without alignments) 16534.837 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                          1 tgcacaagcagaatcttcag......gatgccccaaagcgatttt 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                               Published Applications NA Main:*

1: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*

2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*

3: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*

4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*

5: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*

6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*

7: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*

8: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*

9: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*

10: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
                                                                                                                                                                                                                                                                                                      19587084
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-751-797-25
US-10-627-273-25
US-09-925-065A-687291
US-10-027-632-118181
US-10-027-632-118181
US-09-751-797-8
US-10-627-273-8
US-10-627-273-8
US-10-627-273-8
US-10-627-273-29
US-10-027-632-208140
US-10-027-632-208141
US-10-027-632-208141
US-10-027-632-208142
US-09-925-065A-170361
US-09-925-065A-170361
US-09-925-065A-170361
US-09-925-065A-170361
US-09-525-055A-170361
US-09-525-055A-170361
US-09-525-055A-170361
US-09-525-055A-170361
US-09-525-055A-170361
US-09-525-055A-170361
US-09-525-055A-170361
US-09-575-055A-170361
                                                                                                                                                                                                                                                                                                     Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                        9793542 segs, 4134689005 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                               nucleic search, using sw model
                                                                                                                                                                                                                      IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                      Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                       US-09-751-797-25
4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query
                                                                                                                                                          Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4797
1013.6
1073.6
686
686
686
680
650
651
6511.8
611.8
611.8
611.8
611.8
611.8
611.8
611.8
611.8
611.8
611.8
                                                                                                                                                                                                                          Scoring table:
                                                             OM nucleic
                                                                                                                                                                                            Sequence:
                                                                                                                                                                                                                                                                          Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database
                                                                                              Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Result
No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             טט
```

24 244 25 244 26 244 244	5.1 1152 5 5.1 1152 5	5.1 115.2 5 US-10-08-554-15.3 Sequence 125.5.1 115.2 5 US-10-066-269-125 Sequence 125.5.1 115.2 5 US-10-066-211-125 Sequence 125.5.1 115.2 5 US-10-066-193-125 Sequence 125.5.1 115.2 5 US-10-066-193-125 Sequence 125.5.1 115.2 5 US-10-063-553-15.3 Sequence 243,5.1 115.2 5 US-10-218-631-243 Sequence 243,5.1 115.2 5 US-10-218-631-243	RESULT 1 US-09-751-797-25 Sequence 25, Application US/09751797 Patent No. US20010024652A1 GENERAL INFORMATION: Patent No. US20010024652A1 GENERAL INFORMATION: APPLICANT: Dumoutier, Laure TITLE OF INVENTION: Included Nucleic Acid Molecules which Encode T Cell Inducible TITLE OF INVENTION: 109/1071 FILE REFERENCE: LUD 5543.2 CURRENT FILING DATE: 2000-12-29 PRIOR APPLICATION NUMBER: 09/419,568 PRIOR APPLICATION NUMBER: 09/419,568 PRIOR PILING DATE: 1998-10-18 PRIOR PILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 LENGTH: 4797 TYPE: DNA ORGANISM: HOMO sapiens FRAUURE: US-09-751-797-25	100.0%; Score 4797; DB 3; Length 4797; Similarity 100.0%; Pred. No. 0; 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG 60 	TGTCTGC TGTCTGC	CCACCAGCTGCCTCCTTCTCTTGGCCCTCTTTGGTAACGGAGGAGGAGCTGCTCTTTTTTTT
24 25 26 27 27 28 29 33 33 33 33 33 34 33 33 34 34 44 44 44	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11-797-25 110-797-25 110-25-Ap 12 INFORMA 12 INFORMA 12 INFORMA 13 OF INVEN 13 OF INVEN 14 APPLICAT 15 INFORMA 16 INFORMA 17 APPLICAT 18 IN OF SEQ 18 OF SEQ 19 OF SEQ 10 OF SEQ	Match local Sim 18 4797;)—U
##	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	w 4 4 4 4 4 0 0 4 6 6 6 7	RESULT 1 US-09-75 Sequent Sequent Sequent APPLI APPLI APPLI TITLE TITLE CURRE CURRE CURRE CURRE PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR SEQ II SEQ	Query Best I Matche	දු පු	ራ _የ ር	S &

CCACCAGCTGCCTCCTTCTTGGCCCTCTTGGTACAGGAGGAGGAGCAGCTGCGCCCATCA 180

121 121 181 181

g

Š

ብ ራ

GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT 240 241 TCATGCTGGCTAAGGAGGTATACATCTCAATCCTGCTCTTTCTCGTTGGATCTACTTGGA 300

GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT

240

e Faci

3541 GTAAAATGCATGACAGACAGTAGGGACGATAAACTTTAAAATTCTTTATAGTCTTGGAG 3600 	3601 TCTTTGAGATAGAAAGAATATCTTTTGGCCTTATGTCAAAAGAAGTATGGAAAGGTGA 3660 	3661 AAGGGCGGAAGAAAGCAGGAAAGGAAGAACCATGTATTATATAGAGGACAATGGTGACA 3720 	3721 AGGITITICITGAAATAATGCAAATAIGATAGATTAGAGGAATITCAGTAGGGAAIGCIT 3780 	3781 TTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCATCTGCATTTGACTT 3840	3841 GGAGAGAAAGAATGAATGTTAGGACCTATATCTGGTTTTCTATTAACTAAAGCAAGTG 3900 	3901 GAAAAGACTTATTTGGTATTTTTCCCACAAAAGTGAAAACTTTTCTTTTACTCTTTGTCA 3960 	3961 AAAAGGTGGAAATAGAAAAAGCCTTAATGTATTGGTGAATACATGGTTCAAAGTCATTTG 4020 	4021 AGTAGAGAIGTTTTAAATCAGGAGTGTCCAATCATTGGCTTCCCTGGACCACCTTGAAA 4080 	4081 GAATTGTCTTGGTACACACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGGTCA 4140 	4141 TGCATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAG 4200 	4201 CIGICCTGGGCCAIGIGCGGCCTCTGGGCTGCAGGTTGGACAAGCTCCTTAIAAGTAAIC 4260	4261 IGTCATAGATAGTTTTGGAGCTGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGAT 4320 	4321 CCCCCAGATCCCAGCCTCACTTCAGTCTCCTTGCTCTGGTTAAGAAGGGGTGGTCAACTC 4380	4381 TCTGCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTG 4440 	4441 GTGGCCTCTCAGTCCAGAGAGCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAA 4500	4501 AGGGATATTACTATGAATGTTTTACAAATGCTTAAAACTCGGTTTCTGTCTCCATCAACC 4560	4561 TAATCTIGCAATTTCTAATTTGTTCACTTTAGAAAACATGGCATAAATGCTCAAATACTT 4620
ò a	Qy QD	δγ Op	oy G	& 43	P G	රු යි	oy B	yo q	oy G	\$ g	yo q	oy Og	6 G	oy G	yo, da	oy do	o da o
CATTAATGCATTGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAGCTGG 252	CATTAATISCATTISCATTISGAAGAATAAACTOGGAACAATGAACAATGAACAATGAACAATGG 252 ACTTGCATATAGGGCTAATTTCTGGAGTAATAAACACTTATTTTGAATTATCATAATATC 258	2521 ACTIGCATATAGGGCIAATTICTGGAGTAATAAACACTTATTTGAATTATCATAATATC 2580 2581 TATCAGATATTGATTATAGTTTAAAAGCAAGAGCAGACAACCCGATCTCTTTATACAG 2640 3581 TATCAAATATGATTATAGTTTAAAAGCAAGAGCAGACAACCCCGATCTCTTTATACAG 2640 3581 TATCAAATATTGATTATAGTTTAAAAGCAAAAAGCAGAAAACCACAAAACCACAAAACCAAAAACCAAAAACCAAAA	INICAGNIALIGATIAN MANGANGANCAGNAMACCCCGGALCICILITATANG 204 GITCAAATAGAGTAAAAATATIAGTAAGAGATITATTATAAGTAAATGGAAGTCTGAATT 270 GITCAAATAGAGTAAAAATTATTATTAGTAAGAATTATATATA	GGTAAGCTTTTTTTTTTTTTTTCTTCCTCTCTCCATCAAGACCTTCCATCTAGTTTCTTCCTTC	CTCCCTCTAAATCCTAAGGGGCTTTTATCCATGGGCTGGTTTTTTTT	TGAATGATTATTATTATTATTATTATTATTATTATTATTA	ACATAGTGACTCACCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGTGACGCTCTT 294	ACAMIANIGACICACCICLARAACUGGAGGAGGAGGAGGAGGAGGAGGAAGGAGGACCICII 294 GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGT 300 G11	TICTTC 306	CTGAGCATCATTAAATGAGTGAGTGATTTTTTTCTTCTTTAAAAATTGAGGCTTTTTTTT	TTAAATTGTGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACAGGCTTGTATTTTTTAAATTGTAAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATGGAGGGCTGAA 318	3121 TIMMATICIGAAGCCCAGTICICTIGITAGAACIATIATCTAGACATGGAGGGCTGAA 3180 3181 TGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAATTACTGATTTC 3240 3181 TGTTAGCATGCCACAGACACACATGCTTTACACATCTTGCTTAAAAAATTACTGATTTC 3240 3181 TGTTAGCATGCCACACACAACACATGCTTTACACATCTTGCTTAAAAAAATTACTGATTTC 3240	STITE STIT	TGTGATTTTCAAGACCTTTAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGGTT 336	GCCATGTGGAAGAGTGATTATGCTGTTTTTGCTAGCTAGGAAAGCAAGGAAGG	GCCAIGTGGAAGAGTGATTATGCTTTTTTGCTGGTAGCTTCAGAAAGCACAGGAGGAGAAAAAGCAGAGAAAAAAGCAGAGAAAAAA	3421 GLGATIGITEGGGAGGAAGAICAACAGGGGGGGAGAAACIGICAGAGCIGICIGAAAIAGG 3480 3481 GTGGTTTTGGGAGGCATTAATTCCTCTCGTTGGGGGTAAAAGCAGAACAGAGAGGGGGTGGTA 3540

8 6 8 6 8 6 8

8 6 8 6

8 6 8 6 8 6 8 6

र्व क्षे

음 상 음

8 B

6 6 6 6

8 8 8 8

8 6 8

8 6 8 6

8 8 8

6 6 6 6 6 6 6

```
361 ATACCATCATGTGGCCTATTTGGTGAAAGAACAACAATGGAAGGTTAGACTAACAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2947 AGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241 CITITITITICTICCTCTCTCCCATCAAGACCTICCATTCTAGITITITITITITITICTTCTTCACTCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301 CAACAAATCCCTAGGGAGCATTTATCCATGGTGGGCTGGTGTACATTTCTATAGTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATACCATCATGTGGCCTATTTGGTGAAAAAAACAACAATGGAAGGCTTAGACTAACAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGTGACGCTCTTGCAAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481 AGGTACAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CITAACCITAAITICCCCCTTTTTCCCTCTTTTTAAAAAGCGTTTCTTCTGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CITAACCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAAGCGTTTCTTCCTGAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2587 ATATTGATTATAGTTTAAAAGCAAGAGCAGACAACCCCGATCTTTTTATACAGGTTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2647 ATAGAGTAAAAATATTAGTAAGAGATTTATTATTAGTTAAATGGAAGTCTGAATTGGTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 ATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTCTGAATTGGTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAACAAATCCCTAGGGAGCATTTATCCATGGTGGGCTGGTGTACATTTCTATAGTGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2467 TGCATTGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGACTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 TGCATTGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAAGATGGACTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                     GENERAL INFOURTION:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single
TITLE OF INVENTION: Nuclectide Polymorphisms in the Human Genome
FILE REFERENCE: 108827.135
CURRENT APPLICATION NUMBER: US/09/925,065A
CURRENT PILING DATE: 2001-08-08
PRIOR PPLICATION NUMBER: US 60/243,096
PRIOR PELING DATE: 2000-10-24
PRIOR PELING DATE: 2000-11-20
PRIOR PELING DATE: 2000-11-30
PRIOR PELING DATE: 2000-11-30
PRIOR PELING DATE: 2000-11-30
PRIOR PELING DATE: 2001-01-6
PRIOR PELING DATE: 2001-01-6
PRIOR PELING DATE: 2001-01-16
PRIOR PERIOR DATE: 2001-01-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4; Length 1351;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     图
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 28.1%; Score 1349;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1349; Conservative 1; Mismatches
                        ; Sequence 79886, Application US/09925065A; Publication No. US20050228172A9; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-925-065A-79886
        JS-09-925-065A-79886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2887
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            જ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                    GGAGAGAGAAAGAATGTTAGGACCTATATCTGGTTTTCTATTAACTAAAGCAAGTG 3900
                                                                                                                                                                                                                                                                                          3960
                                                                                                                                                                                                                                                                                                                     GAAAAGACTTATTTGGGTATTTTTCCCACAAAAGTGAAAAACTTTTCTTTTACTGTTTGTCA 3960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTAGAGATGTTTTAAATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAA 4080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAATTGTCTTGGTACACACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCA 4140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTTCTGTTAGGGTGCATTCAAAG 4200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGTCCTGGGCCATGTGCGGCCTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAATC 4260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGTCCTGGGCCATGTGCGGCCTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAATC 4260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTCATAGATAGTTTTGGAGCTGCAAAACAGGCCAAAGGCATAATGGGTGGCACTCGGGAT 4320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGTCATAGATAGTTTTGGAGCTGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGAT 4320
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCCCAGATCCCAGCCTCACTTCAGTCTCCTTGCTCTGGTTAAGAAGGGGTGGTCAACTC 4380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCCCCAGATCCCAGCCTCACTTCAGTCTCCTTGCTCTGGTTAAGAAGGGGTGGTCAACTC 4380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCTGCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTG 4440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTGCCCAGCTTTTAAACAGCTTCATTAGTGTGAGGTGCACCTGAAATTGATGCCTGCTG 4440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGGCCTCTCAGTCCAGAGAGCCGTCATTTTAAGCTCTTTGGCAAATCATACAATACTAA 4500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTGGCCTCTCAGTCCAGAGAGCCGTCATTTTAAGCTCTTTGGCAAATCATACAAA 4500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGGGATATTACTATGAATGTTTTACAAAIGCTTAAAACTCGGTTTCTGTCTCCATCAACC 4560
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAATCTTGCAATTTCTAATTTGTTCACTTTAGAAAACATGGCATAAATGCTCAAATACTT 4620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TTGCATTCTTATTTTCACAGCTTGGAGAGAGAGTGGAGATCAAAGCAATTGGAGAACTGG 4680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTIGCTGTTTATGTCTCTGAGAAATGCCTGCATTTGACCAGAGCAAAGCTGAAAAATGA 4740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTTGCTGTTTATGTCTCTGAGAATGCCTGCATTTGACCAGAGCAAAGCTGAAAATGA 4740
                                                                                                                                                                                                                                                                                                                                                                                                4020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GAATTGTCTTGGTACACACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGGGATATTACTATGAATGTTTTACAAATGCTTAAAACTCGGTTTCTGTCTCCATCAACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAATCTTGCAATTTCTAATTTGTTCACTTTAGAAAACATGGCATAAATGCTCAAATACTT
AAAAGGTGGAAATAGAAAAAGCCTTAATGTATTGGTGAATACATGGTTCAAAGTCATTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                             AAAAGGTGGAAATAGAAAAGCCTTAATGTATTGGTGAATACATGGTTCAAAGTCATTTG
                                                                                                                                                                                      GGAGAGAGAAAGAATGAATGTTAGGACCTATATCTGGTTTTCTATTAACTAAAGCAAGTG
                                                                                                                                                                                                                                                                                          4621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4741
                                                                                                                                3781
                                                                                                                                                                                                                                                                                          3901
                                                                                                                                                                                                                                                                                                                                                                                             3961
                                                                                                                                                                                                                                                                                                                                                                                                                                                   3961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4561
                                                                                   3781
                                                                                                                                                                                      3841
                                                                                                                                                                                                                                       3841
                                                                                                                                                                                                                                                                                                                                             3901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4321
                                3721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4141
```

2646

180

2586

9

120

ö

2706

2766

300

2826

360

2886

420

2946

480

3006

3066

900

3067 ATCATTTAATGAGTGTGTGTTTCTTTCTTTGATAATTGAAGGCTTTGTAGTTTTAAAT 3126

Gaps

1;

Length 1108;

9

1177

120

1237

180

1356

300

1297

240

1416

360

1476

420

1536

480

1596

540

1656

900

1716

099

1776

720

1836

780

1896

840

1956

```
1957 CTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAGTGAAAAAGGTAGGACTGATA 2016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   721 AAGAGCTCAGGAAATCTAGGTCACTGTTGAATCTAGGTCATTGTGGGCAAAATTACTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                   121 TTTTGCTTTGACTGAGTCACATCTTGAGTTTATAGTGGTGAATGGGGTCTGGAACTTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 GAAAGGIGTIGGGAAAAAAATCTCTAGMTGIGGAAAIGGATCCATIGAGICTAAGTIGTIGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGGAGGGGATGGCATGGAGAAATTAGAAGAGAAAGTGGGAAATGGGAAGGCTTAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    301 GGGGAGGGGATGGCATGGAGAAATTAGAAGAAAGGGAAAGGGAAATGGGGAAGGCTTAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCGGTGGTCGGCTCGCAGACTGTTGCCCTGTTGATGTCATGGGAAGCCACAAAATCGGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 TCGCTGGTGGGTCGGCAGACTGTTGCCCTGTTGATGTCATGGGAAGCCACAAAATCGGAG
                                                                                                                                                                                                                                       TCCTTCCACAGAGACCCCCTTACCCCAACTCTCTCTCCTTCCCCTACCCCTAAGCTAGC
                                                                                                                                                                                                                                                                           recrirecacadadececerraceceaacierererecrireceeeraceeraacerade
                                                                                                                                                                                                                                                                                                                                                         AGGAAGAAGTGTCTTGGCAGCAGTGTTATCAGGAGTCATTTGGGATCATAGAGTATTTGC
                                                                                                                                                                                                                                                                                                                                                                                             TITIGCTTTGACTGAGTCACATCTTGAGTTTATAGTGGTGAATGGGGTCTGGAACTTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGTACAGAAGCCGCATTGGTTTGTCTTCGGAAAAAAGGCCAACTCAGGTTGCGTAAGATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1298 GAAAGGTGTTGGG-AAAACATCTAGCTGTGGAAATGGATCCATTGAGTCTAAGTTGTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGGCCTTAATTTTCACATGAGATGTTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     481 GCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGGCCTTAATTTTCACATGAGTGTTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGTACATTTCTTGTTCTAAGCATGCAATTTTCTGGAGATACGATTGAGGTTTTATTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                541 IGTACATTICTTGTTCTAAGCATGCAATTTTCTGGAGATACGATTGAGGTTTTATTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601 ACAGAATTTGCATAAACTACTCCGCTCTTTCCACAAATGCAAACCTCAGTAGGATTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1717 AAAGATGAAGAGAGGTCTCTTGTAAGGGAAGTGACTGGATTCTGGCGTCCAAGGGAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661 AAAGATGAAGAGGTCTCTTGTAAGGGAAGTGACTGGATTCTGGCGTCCAAGGGAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAGAGCTCAGGAAATCTAGGTCACTGTTGAAATCTAGGTCATTGTGGGCAAAATTACTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1837 GAGCTTTAATTCCAGGTGAATTGTACTGTACCTCCATGGGTGTGGAGGTTCATAAAGTTŢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             781 GAGCTTTAATTCCAGGTGAATTGTACTGTACCTCCATGGGTGTGGAGGTTCATAAAGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGCACAACATTAAGATAGTTATGCTTGTTATTGTTTTATAGCATATTGAAGGTGATGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         841 CAGCACATTAAGATAGTTATGCTTGTTATTGTTTTATAGCATATTGAAGGTGATGAC
                                                                                                                                                                                                Indels
                                                                                                                                                              4,
                                                                                                                                                                                                ö
                                                                                                                                                        Score 1095.6; DB 4.
Pred. No. 3.1e-267;
1; Mismatches 0;
    NUMBER OF SEQ ID NOS: 957086
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 687291
LENGTH: 1108
                                                                                                                                                        Query Match
22.8%;
Best Local Similarity 99.8%;
Matches 1106; Conservative
                                                                                                  ORGANISM: Homo sapiens
US-09-925-065A-687291
                                                                                                                                                                                                                                       1058
                                                                                                                                                                                                                                                                             -
                                                                                                                                                                                                                                                                                                                   1118
                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                             1178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1238
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1357
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1597
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1657
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1897
                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                   원
                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                     3486
                                                                                                                                                                                                                                                                                               3366
                                                                                                                                                                                                                                                                                                                                                                           3426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGGGAGGCATTAATTCCCTCTYGTTGGGGTAAAAGCAGAACGCAGGTTGGTAGTAAAAA 1080
                                                                                                                                      CATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAATTACTGATTTCATCTTG 3246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TICTTGAAATAATGCAAATATGATAGATTAGAGGAATTTCAGTAGGGAATGCTTTTCACT 3786
                                                                                                                                                                                                                                                         840
                                                                                                                                                                                                                                                                                                                                                                                                               960
TGTGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATGGAGGGCTGAATGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCATGACAGACAGTAGGGGACGATAAACTTTAAAATTCTTTATAGTCTTGGAGTCTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGATAGAAAAGAATATCTTTTTGGCCTTATGTCAAAAGAAGTATGGAAAGGGTGAAAGGCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGAAGAAAGCAGGAAAAAGGAAGAAGAACATGTATTATATAGAGGACAATGGTGACAAGGTTT
                                                                                                                                                            CATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAATTACTGATTTCATCTTG
                                                                                                                                                                                                                  CTTGTTGTCTTTAGAAAAGTGAAGTGTGAGAGAGGAGAATCTCATGGTGATCTGTGTGAT
                                                                                                                                                                                                                                                                                             TTTCAAGACCTTTAAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGGTTGCCATG
                                                                                                                                                                                                                                                                                                                                 riticaagacciritaarccaritirgaaagaarcaariricararitigcaargggrigccarg
                                                                                                                                                                                                                                                                                                                                                                         TTGTTCAGAGAAAGATCAACAGAGGAGAAACTGTCAGAGCTGTCTGAAATAGGGTGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TIGITCAGAGAAAGATCAACAGGAGGAAACTGTCAGAGCTGTCTGAAATAGGGTGGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGATAGAAAAGAATATCTTTTTGGCCTTATGTCAAAAGAAGTATGGAAAGGTGAAAGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGAAGAAAGCAGGAAAGGAAGCATGTATTATATAGAGGACAATGGTGACAAGGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTCTTGABATAATGCABATATGATAGATTTAGAGGAATTTCAGTAGGGAATGCTTTTCACT
                                                            TGTGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATGGAGGCTGAATGTTAG
                                                                                                                                                                                                                                                     CTTGTTGTCTTTAGAAAAGTGAAGTGTGAGAGAGAAATCTCATGGTGATCTGTGTGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGGGAGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAGAACGCAGGTTGGTAGTAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGCATGACAGACAGTAGGGGACGATAAACTTTAAAAATTCTTTATAGTCTTGGAGTCTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 4

US-09-925-065A-687291

is Sequence 687291, Application US/09925065A

is Publication No. US20050228172A9

is GENERAL INFORMATION:

i APPLICANT: Wango, David G.

i TITLE OF INVENTION: Identification and Mapping of Single

TITLE OF INVENTION: Identification and Mapping of Single

TITLE OF INVENTION: Notleotide Polymorphisms in the Human Genome

FILE OF INVENTION: Notleotide Polymorphisms in the Human Genome

CURRENT APPLICATION NUMBER: US/09/925,065A

CURRENT FILING DATE: 2000-10-24

PRIOR APPLICATION NUMBER: US 60/243,096

PRIOR PILING DATE: 2000-11-20

PRIOR PILING DATE: 2000-11-30

PRIOR PILING DATE: 2000-11-30

PRIOR PILING DATE: 2001-10-10

PRIOR PILING DATE: 2001-01-16

PRIOR FILING DATE: 2001-01-16

PRIOR FILING DATE: 2001-01-16

PRIOR FILING DATE: 2001-01-16

PRIOR FILING DATE: US 60/289,846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGAATTIGGGTTTCCTCTTCGATTAAGTTTG 3817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3187
                                                                                                                                                                                                              3247
                                                                                                                                                                                                                                                       781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3607
                                                          3127
                                                                                                                                                                          721
                                                                                                                                                                                                                                                                                             3307
                                                                                                                                                                                                                                                                                                                                                                         3367
                                                                                                                                                                                                                                                                                                                                                                                                                                                   3427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3787
                      601
                                                                                              661
                                                                                                                                                                                                                                                                                                                                   841
                                                                                                                                                                                                                                                                                                                                                                                                             901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          961
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1321
                                                                                      g
                                                                                                                                                                  셤
                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                         8 & B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                      ద
                                                        ઠ
                                                                                                                        8
                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ś
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
```

2951

535

```
CAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAAGCTTAA 3011
                                                                                                                                                                                                                                                                                                                                        CCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAAGCGTTTTCTTCCTGAGCATCAT 3071
2772 AATCCCTAGGGAGCATTTATCCATGGTGGGCTGGTGTACATTTCTATAGTGAATGATACC 2831
                                                                                                                                                                                                                                                                                                                                                              CCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAAGGGTTTCTTCTGGGGATCAT 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                  294 TGTCTTTAGAAAAGTGAGAAGTGTGAGAAGAAGAATCTCATGCTGATCTGTGTGATTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: WORNTION:
APPLICANT: WORNTION: Dentification and Mapping of Single Nucleotide
TITLE OF INVENTION: Delymorphisms in the Human Genome
TITLE OF INVENTION: Delymorphisms in the Human Genome
FILE REPERBINCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2000-04-30
PRIOR APPLICATION NUMBER: US 60/198,006
PRIOR PILING DATE: 2000-07-12
PRIOR PILING DATE: 2000-04-20
PRIOR PELING DATE: 2000-04-20
PRIOR PELING DATE: 2000-03-29
PRIOR PILING DATE: 2000-03-29
PRIOR PILING DATE: 2000-03-24
PRIOR FILING DATE: 2000-02-44
PRIOR FILING DATE: 2000-02-44
PRIOR FILING DATE: 2000-02-44
                                                                                   ATCATGTGGCCTATTTGGTGAAAAAAAAAAAAAAAAAGACTTAGAACTAACAATAGTGAC
                                                                                                                                                                                           414 AGCCCAGIICICITITATAGAACIAITAICIAGACAIGGAGGCTGAAIGIIAGCAIGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGTCTTTAGAAAAGTGAAGTGTGAGAGAGAGAATCTCATGGTGATCTGTGTGATTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3312 AGACCTTTAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGGTTGCCATGTGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           234 AGACCTITAAICCAITITGAAAGAAICAAITICAIAITIGCAAIGGGIIGICCAIGIGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3432 CAGAGAAAGATCAACAGGAGGAGAAACTGTCAGAGCTGTCTGAAATAGGGTGGTTTTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              774 AATCCCTAGGAAGCATTTATCCATGGTGGGCTGTACATTTCTATAGTGAATGATACC
                                                                                                            714 ATCATGTGGCCTATTTGGTGAAAAGAACAACAATGGAAGGCTTAGACTAACAATAGTGAC
                                                                                                                                                                       TCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGTGACGCTCTTGCAAGCAGGTA
                                                                                                                                                                                                                                                                               AGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATGGAGGCTGAATGTTAGCATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3372 GAGTGATTATGCTTTTTTGCTGGTAGCTTCAGAAAGCACAGGAGGAGAGCAATGTTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                            TTAATGAGTGTGACTGTTTCTTTCTTTGATAATTGAAGGCTTTGTAGTTTTAAATTGTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3492 AGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAGAACGCAGGTTGGTAGTAAA 3545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 118181, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-027-632-118181/c
                                                                                                                                                                         2892
                                                                                                                                                                                                                                                                                                                                               3012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3192
                                                                                        2832
                                                                                                                                                                                                                                                           2952
                                                                                                                                                                                                                                                                                                     594
                                                                                                                                                                                                                                                                                                                                                                                      534
                                                                                                                                                                                                                                                                                                                                                                                                                                3072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                           ď
                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                   셤
                                                                                      ð
                                                                                                                    ద
                                                                                                                                                                       ò
                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2136
                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1074 TGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAAGAGCTGGACTTGCATATA 1015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   955
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 188181, Application US/10027632
| Publication No. US20020198371A1 |
| GENERAL INPORMATION: |
| GENERAL INPORMATION: |
| TILLE OF INVENTION: Identification and Mapping of Single Nucleotide |
| TILLE OF INVENTION: Identification and Mapping of Single Nucleotide |
| TILLE OF INVENTION: Polymorphisms in the Human Genome |
| TILLE OF INVENTION: Polymorphisms in the Human Genome |
| FILE REFERENCE: 10827.129 |
| CURRENT APPLICATION NUMBER: US/10/027,632 |
| CURRENT APPLICATION NUMBER: US 60/128,006 |
| PRIOR PILING DATE: 2000-07-12 |
| PRIOR PILING DATE: 2000-03-29 |
| PRIOR PILING DATE: 2000-03-29 |
| PRIOR APPLICATION NUMBER: US 60/195,218 |
| PRIOR PILING DATE: 2000-02-24 |
| PRIOR FILING DATE: 1999-11-23 |
| PRIOR FILING DATE: 1999-11-23 |
| PRIOR FILING DATE: 1999-11-23 |
| PRIOR FILING DATE: 1999-09-28 |
| PRIOR FILING DATE: 1999-09-28 |
| PRIOR FILING DATE: 1999-08-09 |
| PRIOR FILING DATE: 1999-08-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2472 TGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGACTTGCATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTAAAAATATTAGTAAGAGATTTATTATTAGTTAAATGGAAGTCTGAATTGGTAAGCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTAAAAATATTAGTAAGAGATTTATTAWAGTTAAATGGAAGTCTGAATTGGTAAGCTTTTT
TICCCATCACTITGIGATITITICACTIGATITCICCTACCACCAGGGCGATTACTITGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1074;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 1073.6; DB 5;
Pred. No. 1.2e-261;
1; Mismatches 0; ]
                                                                                                                                                                                                                                         TCTGTGTATGTAGATATATCTATATC 2164
                                                                                                                                                                                                                                                               Query Match 22.4%;
Best Local Similarity 99.9%;
Matches 1073; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2712
                                                                    2017
                                                                                                                196
                                                                                                                                                                                                                                           2137
                                                                                                                                                          2017
                                                                                                                                                                                                  1021
                                                                                                                                                                                                                                                                                   1081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               834
                              901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                     g
                                                                                                                                                                                    중 음
                                                                                                                                                                                                                                                                          용
                                                                    ò
                                                                                                                                                        ò
```

3311

3371

235

3251

295

3131

415

3191

355

3431

115

```
TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-751-797-8
                                                                                                     3432
                                                                                                                                                                                54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2034
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        389
                       셤
                                                    ð
                                                                    g
                                                                                                    ò
                                                                                                                            g
                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                        2591
                                                                                                                                                                                                                                                                                                                         2651
                                                                                                                                                                                                                                                                                                                                                                            2711
                                                                                                                                                                                                                                                                                                                                                                                                                            2771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3191
                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3011
                                                                                                                                                                                                                                              TGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGACTTGCATATA 1015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTAATGAGTGTGACTGTTTCTTCCTTTGATAATTGAAGGCTTTGTAGTTTTAAATTGTGA 3131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TGTCTTTAGAAAAGTGAAGTGTGAGAGAGAATCTCATGGTGATCTGTGTGATTTTCA 3311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATCCCTAGGGAGCATTTATCCATGGTGGGCTGTACATTTCTATAGTGAATGATACC 2831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               415
                                                                                                                                                                                                                                                                                                 955
                                                                                                                                                                                                                                                                                                                                                                                                     835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATGGAGGGCTGAATGTTAGCATGC 355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAAGCGTTTCTTCCTGAGCATCAT 475
                                                                                                                                                                                                                                                                                       GATTATAGTTTAAAAGCAAGAGCAGACAACCCCGATCTCTTTATATACAGGTTCAAATAGA
                                                                                                                                                                                                                                                                                                                                                                                         GTAAAAATATTAGTAAGAGATTTATTAWAGTTAAATGGAAGTCTGAATTGGTAAGCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                           TTTTCTTCCTCTCCCCATCAAGACCTTCCAAGTTCTACTTCTTCTTCAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGTGACGCTCTTGCAAGCAGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTAATGAGTGTGACTGTTTCTTCCTTTGATAATTGAAAGGCTTTGTAGTTTTAAATTTGTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGTCTTTAGAAAAGTGAAAGTGTGAGAGAGAGAAATCTCATGGTGATCTGTGTGATTTTCA
                                                                                                                                                                                                                                                                        GATTATAGTTTAAAAGCAAGAGCAGACAACCCCGATCTCTTTTATACAGGTTCAAATAGA
                                                                                                                                                                                                                                                                                                                                                                            GTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTCTGAATTGGTAAGCTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                              ATCATGTGGCCTATTTGGTGAAAAAAACAACAATGGAAGGCTTAGACTAACAATAGTGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u> ATCATGTGGCCTATTTGGTGAAAAGAACAACAATGGAAGGCTTAGACTAACAATAGTGAC</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAAGCTTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAAGCTTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAAAGCGTTTCTTCCTGAGCATCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGCCCAGTICTCTTTATAGAACTATTATCTAGACATGGAGGCCTGAATGTTAGCATGC
                                                                                                                                                                                                                      TGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAAGAGCTGGACTTGCATATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AATCCCTAGGGGGCATTTATCCATGGTGGCTGGTGTACATTTCTATAGTGAATGATACC
                                                                                                                                                                                             Gaps
                                                                                                                                                                  Length 1074;
                                                                                                                                                                                             ö
                                                                                                                                                                                             0; Indels
                                                                                                                                                                 Score 1073.6; DB 6;
Pred. No. 1.2e-261;
1; Mismatches 0;
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 325720
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 118181
                                                                                                                                                                  Query Match 22.4%;
Best Local Similarity 99.9%;
Matches 1073; Conservative
                                                                                                                 ; TYPE: DNA
; ORGANISM: Human
US-10-027-632-118181
                                                                                                                                                                                                                                              1074
                                                                                                                                                                                                                                                                       2532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3252
                                                                                                                                                                                                                      2472
                                                                                                                                                                                                                                                                                                1014
                                                                                                                                                                                                                                                                                                                           2592
                                                                                                                                                                                                                                                                                                                                                                            2652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3192
                                                                                                                                                                                                                                                                                                                                                 954
                                                                                                                                                                                                                                                                                                                                                                                                                              2712
                                                                                                                                                                                                                                                                                                                                                                                                                                                    834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    354
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      294
                                                                                                                                                                                                                                                                                                                                                                                                     894
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                         Ś
                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                        જે
                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                      Ś
                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
```

```
Sequence 8, Application US/09751797

Sequence 8, Application US/09751797

Patent No. US20010024652A1

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Louhed, Jamila

APPLICANT: Louhed, Jamila

APPLICANT: Louhed, Jamila

APPLICANT: Louhed, Jamila

APPLICANT: Renauld, Jean-Christophe

TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 543.2

CURRENT APPLICATION NUMBER: US/09/751,797

CURRENT FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-18

PRIOR FILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 29

LEMAND. AAAL

LEMAND. AAAL

LEMAND. AAAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2153
                                                                                                                                                                                                                                                                                           3431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGAGAAAGATCAACAGGAGGAGAAACTGTCAGAGCTGTCTGAAATAGGGTGGTTTTGGG 3491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crrccaecaeceracarcercaacecercrrrarecresceaassasacaecrese 2273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2274 TCTCTTTCTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAACTCTTTAGGGG 2333
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3334 CGCTTTATCTCCGCAGGTCTCACTACCTATGTTT------TCTGTCTCTTTAGAG 2382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2383 ACTCTTTAAGGACTGGGCTCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTAT 2442
3312 AGACCTTTAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGGTTGCCATGTGGAA 3371
                                                                                                                                                                                                                                                                                                                                                                                                                                 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     149 CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            269 AATCCTGCTCTTTCTCGTTGGATCTACTTGGAATCCAAATAGTTCTTAAACTTTTCTTCA 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     114 CAGAGAAAGATCAACAGGAGGAGAAACTGTCAGAGCTGTCTGAAATAGGGTGGTTTTGGG 55
                                                                                                                                                                                                                                                                                                                                                                                    89 ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTTCTTTGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2094 Arcrardadririric cerrardad da cerra de centra de ce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       329 GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATTTTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           234 AGACCTTTAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGGTTGCCATGTGGAA
                                                                                                                                                                                                                                                                                                  CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3492 AGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAGAACGCAGGTTGGTAAAA 3545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAGAACGCAGGTTGGTAGTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
14.3%; Score 686; DB 3; Length 7445;
Best Local Similarity 53.8%; Pred. No. 1.5e-162;
Matches 2644; Conservative 0; Mismatches 1875; Indels 39.
```

8 6 6 6

8 8 8

역 상 역

8 6 8 6

8 & 8 &

1441 AMAGNGTHCHANGARTCHANARICACCTTTGACTTCTTACA 1468 1461 AMAGNGTHCHANARICACACANTACANARICACCTTTGACTCTTACANARICACCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTC
8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4

4686 CICTITAICICICAGAAAIGCCIGCAITICACCAGAGCAAAGCIGAAAAAIGAAIAAC	~ − − −	509 CTGATGATTTTTTTTTCTTTATGCCTCTGTGCATTGTTCTAAACTCATGCACACATCTG 568
CTGTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGGTAGAAACGAA TAACCCCTTTCCCTGCTAGAAATAACAATTAGATGCCCCAAAGGGATTTTT 47% 	å &	569 AATTCTGCTTTTAGTCTTTATGATGTTGCTCTGGGGAGGGGGGGG
Db 6644 TGCTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTT 6695	ò	GTATAAATTTTTTTTTTTGCTCAATGTCCAGACCCTTAGTCTTTTCTTTC
RESULT 8 US-10-627-273-8	g i	
; Sequence W. Appl.cation US/1062/2/3; Publication No. US20040110189A1; Publication No. US20040110189A1; GENERAL INFORMATION:	S 8	2655 GCCAGCCTTGCAGATAACAACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGA 2714
Cell Inducible	Oy Fac Db	749 GTCAGTGTAAGCTACAGTTGTGACGAACAGGGCCGTGTGCCGTCCATGGGTACTTGGGGT 808
; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof; FILE REFERENCE: LUD 5543.; CURRENT APPLICATION NUMBER: US/10/627,273; CURRENT FILING DATE: 2003-07-25		809 GGIGGIGAIGGITIAGGICITAICCCITAIGACCCITITCTGITICCCTTCCACCIGC 868 [
; PRIOR APPLICATION NUMBER: US/09/751,797 ; PRIOR FILING DATE: 2000-12-29 ; PRIOR APPLICATION NUMBER: 09/419,568 ; PRIOR FILING DATE: 1999-10-18	& A	869 AGATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAGAAGTGC 928
; PRIOR APPLICATION NUMBER: US09/178,973 ; PRIOR FILING DATE: 1998-10-26 ; NUMBER OF SEQ ID NOS: 29 ; SEQ ID NO 8	& a	929 TGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTCCTTCCT
; LENGTH: 7445 ; TYBYE: DAR ; ORGANISM: Mus musculus ; FEATURE:	<i>8</i>	989 GGCTCAGCAACAGCACATGTGTAAGTTCAGCTCTCAGCCTATGCCCACCTACCC 1048
3%; Score 686; DB 7; Length 7445; 3%; Pred. No. 1.5e-162;	& g	1049 CTCCTTCCCTCCTCCACAGAGACCCCTTACCCCAACTCTCTCT
Matches 2644; Conservative 0; Mismatches 1875; Indels 393; Gaps 29 CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA	čo qa	1109 TAAGCTAGCAGGAAGAGTGTTCTTGGCAGCAGTGTTATCAGGAGTCATTTGGG 1161
2034 CTCTCCTCTCACTTATCAACTGTTGACACTTGTGCGATCTCTGATGGCTGTCCTGCAGAA 89 ATCTGTGAGCTCTTTCCTTATGGGGACCTGGCCACCAGCACCACCACCTTCTCTTGGCCCT	<i>&</i> 8	1162 ATCATAGAGTATTIGCTTTGACTGAGTCACATCTTGAGTTATAGTGGTGAATG 1221
2094 ATCTATGAGTTTTTCCCTTATGGGGACTTTGGCGCCCAGCTGCCTGC	P O	1222 GGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTGCTTCGGAAAAAGGCAACTC 1281
2154 GTGGGCCCAGGAGGCAAATGCGCTGCCGTCAACACCCGGTGCAAGCTTGAGGTGTCCAA 209 CTTCCAGCAGCCCTATATCACCAACGCACCTTCATGCTGGTGGTGGAGGAGTATACATCTC	<i>ò</i> 8	1282 A
2214 CTTCCAGCAGCCGTACATCGTCAGCGCCTTTATGCTGGCCAAGGAGGTACTGCA 269 AATCCTGCTTTCTCGTTGGATCTACTTGGAATCCAAATAGTTCTTAAACTTTCTTCA 	& 93	1310 GAAAACATCTAGCTGTGGAAATGGATCCATTGAGTTGTAGTTGTTGAGGGGGGGG
2274 TCTCTTTCTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAGGGG 329 GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTCTG	λο qα	1370 CATGGAGAAATTAGAAGAGAAAATGGGAAATGGGAAGGCTTAAA 1415
2334 CGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAG 389 TTTTTCAGAGACTCTTTGGGAALCTGGCTTTTTTTTTTTT	රු යි	1416GTCGGTGGTGGTGGTCGCCAACTGTTGCCCTGTTGATGTCATGGA 1460
Db 2383 ACTCTTTAAGGACTGGGTCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTAT 2442 Qy 449 TTTGGCCTTTATGATACATATGATGAAGTTTTTCCCAAAGAGCGGCCATTCAGTAATCCAT 508	ò	agccacaaaatcggaggcgtgtgaacttgatgccgctgaacatttgaaactatgaaaaa
	ବର <i>ଧ</i>	3478 AGTTAAGAAAAACCAGT-GTGTGAGTTTGATGTCTTCAGACACCCCCAACTATGAAACAT 3536 1521 AGTTTGAGTGGAGTGGGCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGGGCTTAATTTT 1580

1881 TATATTTAAGATTAAAGAGTGGATAGCCTCCCAATTTACTTGGCCTGGTTTCAAA 4640 2649 AGAGTAAAAATATTAGTAAGATTATATTATTATTATTATGGTAAGAGTCTGAAGTTGGTAAGCT 2708	2829 ACCATCATGTGGCCTATTTGGTGAAAGAACAACAATGGAAGGCTTAGACTAACAATA 2886 4813 ATTGCTGTGTGGCCTCTTTGGGGAAGGGAACAGGATAGCAGGCTCAGGCTCAGCAAGT 4872 2887 GTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGGATAGCAGGCTCAGGCTT-GCAAG 2945	3006 GCTTAACCTTAATTCCCCCTTTTTCCCTTGACTTTTTAAAAAAGCGTTTCTTCCTGAG 3065 4993 ATCTACCCTTATCTTCTATCGAACCTAAATCGTCTTTTTTTTTT		5271 CTGTAGGAAAACTTŤTŤTŤTCCCCŤTĀĀĀTĠĆŤATŤĀŤCĠÁCŤŤTČÁGTCÅÁCTŤ 5327 3343 TCATATTTGCAATGGGTGCCATGTGGAAGAGTGATTATGCTTTTTGCTGGTAGCTTCA 3402	AGCAGACCCCCGAAGACCACCACAGGCGACGACGAGGCTTAAGTAGG AGCAGACCCCCCGAAGACCACCACAGGTGTTAAGTAGG AGCAGACCCCCCGAAGACCA
B & B & B & B	8 6 8 6 8	8 8 8 8 8	6 6 6 6 6	3 8 5 8 5 8	8 4 8 4 8 6
					·
	GCGTCCAAGGGAATTCAAGGGCTCAGGAATCTAGGTCACTGTTGAAATCTAGGTCATTG GCGTCCAAGGGAATTCAAGGGCTCAGGAAATCTAGGTCACTGTTGAAATCTAGGTCATTG GTTCTTATATACTAAGAGCTTAATTCAGGTGAATTGTACCTCCATGGGTCACAG TGGGCAAAATTACTAAGAGCTTTAATTCCAGGTGAATTGTACCTCCATGGGTGTG	3874 AGGTATTGGGCTCCCACCGGATAAGATTCTGTTAGTGA-GTCTGCTTTTATTTTGCAGGA 3932 1941 TATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACAAGTGAA 2000 3933 CATCAGCGGTGACGACCAGAACATCCAGAAGAATGTCAGAAGGCTGAAGGAGACAGTGAA 2001 AAAGGTGAGGACGACGAAGAACATCCAGAAGAATGTCAGAAGGCTGAAGAAGACAGTGAAA 2001 AAAGGTAGGACTGATAACTGTCAATGCTAAGGAGAGAGAAAAATGTTGTTT 2060 3993 AAAGGTAATGGCAAGACATCATAGGAGACATCAGATTCTCTAGGAATTCTCTACCAACAGAGAATTTTCACTTGATTTTCTAGAATTTTCTACCAACACAGAGAACAGAGAACAGAGAATTTTTCAATTTTTCTATCTA	4051 TitcicrgcTitccagTcCTTCTACTTTGTAGATTTTATTTGACTTGTCTACTATCTG 4110 2121 GGCGATTACTTTGGTGTATGTAGATATATCTATATTCTAGATGTCAGTT 2176 111 GTCCATTACTCGCTTAGCTGCACCTGTATCTAGGTCTATAGATCTTCAGTCTGTG 4170 2177 TCCAAATCTTGCAAATTGTAGAATTCTAGAACTGGTTGGGATCTTAGGTTGTCTAGTCAC 2236 111 TCTAAATTTGTAAGTCACAATTCTGGAGGTAGGAAAAGGTTAGCTCAGCCAGTCTC 4227 2237 ATAACCTCAGATTCTGGGATGGTCACAGAGATAGGAGGCTAGAATGCAGGTCCTG 2296		2417 GAAAATGCCTATGGGCAATTTATTTGAGTCATTTTTGAGTCATTAATGCATTGCTT 2476 [

		Qy 4746
٥٨		Db 6644
g G	5663 AGGACTIGAACAGCTACAAATCCTCTACCAGACGATTTTTCTIGGAACAATCTAGAAGGT 5722	
à	3749 ATAGATTAGAGGAATTTCAGTAGGGAATCCTTTTCACTTGAATTTGGGTTTCCTCTT 3805	RESULT 9 US-09-751-797-
Db	5723 Agregairagigaligcagegacricciricccairigaaicrégalirieicre 5782	; Sequence 29,
ò	3806 CGATTAAGTTTGGGATCCTCGTCTGCATTTGACTTGGAGAGAGAAAGAATGAATGT 3861	GENERAL INFO
qq	5783 CCATTGAGGTTGAAAGCGTCACCTTTTTACCCTCGAATGGAGGAAGGA	
λŏ	3862 TAGGACCTATATCTGGTTTTCTATTAACTAAAGCAAGTGGAAAGACTTATTTGGTATTT 3921	TITLE OF IN
Dp	5843 TATGACTCCTACCTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTCCT 5902	
λ	3922 TICCCAGAAAGTGAAAACTITICTITIACIGICAAAAGGGGGAAAAAAAA 3981	CURRENT FII
e e	5903 CTGACAAAAAAAGGAAACCTGTTGTTTGTCTTGTTTGTTT	PRIOR FILIN
٥٧	3982 CCTTAATGTATTGGTGAATACATGGTTCAAAGTCATTTGAGTAGATGTTTTAAATCAG 4041	PRIOR
QQ	5963 AGGCAAAGCCCGACCACATGGGTTGAATGTGGGTCTTTGAGTCAAGGCTTTTGAGTGAG	SEQ ID NO 29
à	4042 GAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAAGAATTGTCTTGGTACACACAT 4101	
qa	6023 CACTCATCAATAGTTGATCATGGTCAGGTGGAGGGC 6058	; FEATURE: US-09-751-797
à	4102 AAAATACAAGAACAATAGCTGATGAGCTAAAAAGCTCCATGCATAAATCTCATACTGTTT 4161	Onerv Match
qa	6059 TACCTGTCAGGCCCGAGCCCTGCTGCGCTTTAACATCTCCAGGTCTCAGTATCACT 6118	Best Local S
à	4162 TAAGAAAGTITATGAATTTCTTAGGGTGCATTCAAAGCTGTCCTGGGCCATGTGCGGC 4221	29
qo	6119 TCCTGCTACTTAGCACAGTTAGGAGTTGAGCAAACCTTTTTTTCC 6163	۳ -
λ̈́o	4222 CTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAATCTGTCATAGATAG	
Dp	6164AACCCCCACTAAAATTTAATTGACAAAAGACTGTGTAATTTG 6205	•
λŏ	4282 TGCAAAACAGGCCAAGGCATAATGGGTGGCACTCGGGATCCCCCAGATCCCAGGCCTCACT 4341	
Ωp	6206 TGGGATACAGTGTGATAATTGA6227	
è	4342 かつをなかでかってからないであるなみなるのであるのであるできるのであっているのであることの 4401	DD 476
à á		Qy 209
g (TOWN TO THE CONTRACT TO THE CO	DD 536
à i	TICATING GIGAGGI GACCI GAAAN I GAI GCCI GCI GGC GGCCI CLI CAGAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Qy 269
g (TTIAIGGETGTGAAATGCAAGTAATATAGGAAGTCCTGTGCGTGTCCTTAGGGTCAGAAA	965 da
∂ i	GCCGICATTTTANGCTCTTTGCCARATCATACAATACAATACCAATACCAATACCAATACCAATACCAATACCAATACCAATACCAATAC	Qy 329
9	GGCATGATTTTAAGGICTTGGGCAAATCATATAATCATGCTAAAAAAAAAA	959 qq
à i		Qy 389
Q C	GATTATTAATCITTTAGAGAGGGGGATACITGGTTTTGGTGGCAAGCAAATGTCA	Db 704
δ i	CAATITCTAAITIGITCACTITAAAAACAIGGCAIAAAIGCITAIGCA	Qy 449
a a	CCAGCTCTTTCTAACTGGTACCACTTTAGAAAATGCTACCTGTGCTCAAATTGGTA	Db 764
à i		Qy 509
90	TTCTTATTTTCATAGCTTGGAGAGGTGGAGAGATCAAGGGCGATTGGGGAAACTGGACCTG	Db 822
<u>ک</u> خ	4686 CIGITTATOTCTCTCAGAANGCCT6CATTTGACCAGAGCAAAGCTGAAAATGAATAAC 4745 	Qy 569
Q		Db 882

```
Louhed, Jamilar

Eduhed, Jamilar

Enauld, Jean-Christophe

INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac

INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof

RENDES: LUD 5543.2

INVENTION: (WHERE: US/09/751,797

PLICATION NUMBER: US/09/178,973

ING DATE: 1999-10-18

ING DATE: 1999-10-26

ING DATE: 1999-10-26

ING DATE: 1999-10-26

ING DATE: 1999-10-26

ING DATE: 1999-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            882 TÀCTĊ------CTGAGACCCACTGCGGACATACATCTCTAC 916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 cricrocricadriatica critrifo acaricada de cricrocricada de cricrocada de cricrocricada de cricrocricada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 AATCCTGCTCTTTCTCGTTGGATCTACTTGGAATCCAAATAGTTCTTAAACTTTTCTTCA 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 reitriricitecaracecerrecearrecerasecarrecaaacerrecaaacerriages
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            derttaretecscaksireteaetaketaitrietetet------ettasas 703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 acretrraaggacrogarerrrrerarrerarricaaggrereaggacearrrecrar 763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCGTTT--AGAAAGCCA 821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGATGATTTTTTTTTCCTTTATGCCTCTGTGCATTGTTCTAAACTCATGCACACTTTG 568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9 AATTCTGCTTTTAGTCTTTATGATGTTGCTCTGGGGAGACGGGATGGGGGCACATGTCTAT 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6 ATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTGCTTCTCATTGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTGGTACAGGGAGGAGCAGCTGCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9 CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                   1746 TAACCCCCTTTCCCTGCTAGAATAACAATTAGATGCCCCAAAGCGATTTTT 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 650; DB 3; Length 5935;
Pred. No. 1.9e-153;
0; Mismatches 1285; Indels 152;
                                                                                                                                                                                                                                                                                                                  9, Application US/09751797
US20010024652A1
PORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 h 13.6%;
Similarity 56.5%;
63; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dumoutier, Laure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  : Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ō
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        σ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
```

1691 AATICCAAACCTCAGTAGATTTCCCAAGATGAGAGGCTCTTTGTAAGGGAAGTC 2016 1957 TGGTGGAATCTCCAAGACCAGGAACCAGGAACCTCTTGTAAGGGAGGACC 2016 1957 TGGTGGAATCTCCAAGACCAGGAACCAGGAACCTCTTGTAAGGGAGGACCC 2016 1957 TGGTGGAATCTCCAAGAACCAGAAACCTCTTGTAAGGAACCT 2016 1957 TGGTGCAATCTCCAAGAACCACAAAACCTCAAGAAACCTCTTGTAAGGAACCTCTTTCTT	2724 ACTGATGCTCTGAGTGATCAACCCAGAATAACAACAAAAGAGCTGGATTTGC 2783 2527 ATATAGGGCTAATTTCTGGAGTAATAAACCCAGAATAACAACAAAAGAGCTGGATTTGC 2783 2527 ATATAGGGCTAATTTCTGGAGTAATAAACCCAGACTGTCTTTTAATTAA
8 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	6 8 6 8 6 8 6 8 6 8 8
TTCTCTTCAG	1399 AAATGGGAAGGCTTAAAGTCGGTGGTGGCAGCTTGCCCTGTTGA 1450 1679 AATGGCAAGGCAAAGTCGAGGGAAGGTGGAGGCTCATGTTGA 1450 1671 TATGAAAAGTCGAAAATCGGAAGGAAGTGAAGTTAAGAAATTTGAAAC 1510 1739 TGTGAAAAAGGTTTGCATGTGATGGAGGTTAAGAAAATTGAACTTTGAAAC 1510 1511 TATGAAAAAAGTTTGAGTGAGGAGGTTAAAAAAAAATCAGTGTGAGGTT 1798 1511 TATGAAAAAAGTTTGAGTGAGGAGCCGAGTAAAAAAGCCTTACTGAAGATT 1798 1511 TATGAAAAAAAGTTTGAGTGAGGAGTGAGAGTTAAGAAAAAA

ATCTATGAGGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCATTGCCCT CTTGGTACAGGGGAGCAGCGCCACCAGCAGCTGCAGCTTCTCATTGCCCT CTTGGTACAGGAGGAGCAGCTGCCTTCAACCCCGGTGCAAGGTACATCCCAA CTTCCAGCAGCCCTATATACCCCACCCC	917 TTACAGGCTTTTCTTCCATCTCTCTTGTCACCAGGCACTTAGGGTTTTC-TCTTTTCAG 975 689 GCTAGCTTGCTGCTCACACACACACACCCCTCTCTTTCGAGGAAACTGTTCCACGGA 748 976 GCCAGCCTTGCTGACACACACACACCCCTCTCTTCGGGAAACTGTTCCACGGA 1035 749 GTCAGTGTAAGCTACACACACACACACACCCTCTCTCTGCTTTCTTCCTTGGGT 1082 1036 GTCAGTGTAAGCTACACTGTGACAACACGGCCGTTCTCTGTTTCCTTTCGGGT 1082 1036 GTCAGTGTAAGCTTTAGGTCTTATCCCTTATGACTGCTTCTTCTTCTTCTCTCACCTCC 868 11111
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 4 8 4 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	NESSUATION RESULTION With the control of the contr

1322 GGGTCTGGAAATTCTGAGAAGCCGCATTGCTTTGCAGAAAAAAGCCTTCTTTTTTTT
--

8 8 6 8 6 8 6

8 8 8 8

셤 8 8

2526 2578 3110 2466 2723 2783 2634 2754 3080 2872 3200 3230 3489 3290 2931 AGGTCTCCTGAATCCCAAGCCAGCACTTTTCCCGGTGGTGATACAGATTAGTTTTGGTAC 2346 2844 igictatitragcigectaritraagartaaacacaagagregaraactroccaaritacig 2903 2755 CCTTCACTCCCTCAACAAATCCCTAGGGAGCATTTATCCATGGTGGCTGGTGTACATTT 2814 AATTITCAGTAACAAGCTIAACCTIAATICCCCCTTTTTCCCTCTTGACTTTTTAAAAA 3050 AATTATCAGTAAGATATCTACCCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313 CTITIGIAGITITIAAAITGIGAAGCCCAGITCICITIGITATAGAACTATIAICTAGACAIG 3170 3372 cririgcadarirircagiccrcreccagricrici--ragagegrirgriaccrigacac 3429 3314 rererectrerrererasserisaraasasseeristra ATATAGGGCTAATTTCTGGAGTAATAAACACTTAT------TTTGAATTATCATAATA CATTAATTCTTAGGGAAATTTCAGATTCCTATTGACTCATGTAATCTGAAGAAGTACTTG 3081 TTACAGCAAACAACATTGCTGTGTGGCCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGC TTAGACTAACAA -TAGTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGT TCT---ATCAGATATTGATTATAGTTTAAAAGCAAGAGCAGACAAC-CCCGATCTCTTTT TGAATTGGTAAGCTTTTTTTTTCTTCCTCTCCCATCAAGACCTTCCATTCTAGTTTCTT CTATAGTGAATGATACCATCATGTGGCCTATTTGGTGAAAAGAACA--ACAATGGAAGGC GCGTTTCTTCCTGAGCATCATTTAATGAGTGTGACTGTTTCTTCCTTTGATAATTGAAGG 3430 TGGGCTTGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCCTGTGTAAAAGGTTAT 3171 GAGGGCTGAATGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAAT 2287 2551 2347 2407 2668 2579 2692 2964 2815 2873 2991 3261 3111 3231 3490 3051 셤 Š ብ ራ 음 수 음 장염 8 G 8 G 8 G ò g ò g ò 엄 ઠે 8 8 8 8 8 8 요 8 셤 중 음

RESULT 11 US-10-027-632-208140 ; Sequence 208140, Application US/10027632 ; Publication No. US20020198371A1

```
3887 AACTAAAGCAAGTGGAAAAGACTTATTTGGTATTTT 3923
                12.8%;
99.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 12.8
Best Local Similarity 99.2
Matches 632; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , ORGANISM: Human
US-10-027-632-208141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3707
                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3289 CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAAGAATCAATTTCATA 3347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CACAGGAGGAGGAATGTTGTTCA-GAGAAAGATCAACAGGAGGAGAAACTGTCAGAG 3466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAG 3526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTATGGAAAGGTGAAAGGGCGGAAGAAAGCAGAAAAGGAAGAACCATGTATTATAGA 3706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCA 3826
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3348 TITGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTTGCTGGTAGCTTCAGAAAG 3407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              181 CTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTYGTTGGGGGTAAAAGCAG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TTATAGACTTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 CACAGGAGGAGAGCAATGTTCATGAGAAAGATCAACAGGAGGAGAAACTGTCAGAG 180
       GENERAL LINGUARITON:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Identification and Mapping of Single Nucleotide

TITLE OF INVENTION: Poolymorphisms in the Human Genome

FILE REFERENCE: 108827129

CURRENT PAPLICATION NUMBER: US/10/027,632

CURRENT FILING DATE: 2002-04-30

PRIOR PLICATION NUMBER: US 60/198,676

PRIOR PLICATION NUMBER: US 60/198,676

PRIOR PLING DATE: 2000-04-20

PRIOR PLING DATE: 2000-04-20

PRIOR PLING DATE: 2000-03-24

PRIOR PLING DATE: 1999-11-23

PRIOR PLING DATE: 1999-11-23

PRIOR PLING DATE: 1999-11-23

PRIOR PLING DATE: 1999-09-08

PRIOR PLING DATE: 1999-09-08

PRIOR PLING DATE: 1999-08-09

PRIOR PLING DATE: 1999-08-09

PRIOR PLING DATE: 1999-08-09

PRIOR FILING DATE: 1999-08-09

PRIOR FILING DATE: 1999-08-09

SOFTWARE FEACESEQ for Windows Version 4.0

SEQ ID NO 208140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421 GGACAATGGTGACAAGGTTTTTCYTGAAATAATGCAAATATGATAGATAGATAGAAGAATTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTGCATTTGACTTGGAGAGAAAGAATGAATGATTAGGACCTATATTCTGGTTTTCTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCATTTTTGAAGAATCAATTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AACGCAGGTTGGTAAAAATGCATGACAGACAGTAGGGGACGATAAACTTTAAAATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            241 AACGCAGGTTGGTAGTAAAATGCATGACAGACAGTAGGGGACGATAAAACTTTAAAAATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTATAGTCTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGACAATGGTGACAAGGTTTTTCTTGAAATAATGCAAATATGATAGATTAGAGGAATTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCTGCATTTGACTTGGAGAGAAAGAATGAATGTTAGGACCTATATCTGGTTTTCTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 637;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12.8%; Score 611.8; DB 5; 99.2%; Pred. No. 2.4e-144; ive 3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best Local Similarity 99.2
Matches 632; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; TYPE: DNA
; ORGANISM: Human
US-10-027-632-208140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3647
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3707
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
```

```
3347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGACAATGGTGACAAGGTTTTTTTTTGAAATAATGCAAATATGATAGATTAGAGGAATTTC 3766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301 TTATAGTCTTGGAGTCTTTGAGATAGAATATGTCTTTTTGGCCTTATGTCAAAGAA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361 GTATGGAAAGGTGAAAGGGCGGAAGAAAGAAAAGGAAGAAGAAGAAGTGTATTATAYAGA 420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
US-101/02/032-2014, Application US/10027632
| Sequence 208141, Application US/10027632
| Publication No. US20020198371A1
| GENERAL INFORMATION:
| APPLICANT: Wang, David G. |
| TITLE OF INVENTION: Identification and Mapping of Single Nucleotide |
| TITLE OF INVENTION: Identification and Mapping of Single Nucleotide |
| TITLE OF INVENTION: DOLYMORPHISE IN the Human Genome |
| FILE REFERENCE: 108827.129 |
| CURRENT FILING DATE: 2002-04-30 |
| PRIOR PLICATION NUMBER: US 60/18,006 |
| PRIOR PLICATION NUMBER: US 60/189,676 |
| PRIOR FILING DATE: 2000-05-20 |
| PRIOR FILING DATE: 2000-03-29 |
| PRIOR PLING DATE: 2000-03-29 |
| PRIOR PLING DATE: 2000-03-29 |
| PRIOR PLING DATE: 1999-11-23 |
| PRIOR FILING DATE: 1999-09-28 |
| PRIOR FILING DATE: 1999-09-28 |
| PRIOR FILING DATE: 1999-09-28 |
| PRIOR FILING DATE: 1999-09-08 |
| PRIOR FILING DATE: 1999-09-09 |
| NUMBER OF SEQ ID NOS: 325720 |
| SOFTWARE: PSECSEQ for Windows Version 4.0 |
| SEQ ID NO 208141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3348 TITGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTGCTGGTAGCTTCAGAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3408 CACAGGAGGAGAGCAATGTTGTTCA-GAGAAGATCAACAGGAGGAGAAACTGTCAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3467 CTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCCTCGTTGGGGGTAAAAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTATAGUCTTGGAGTCTTTGAGATAGAATATCTTTTTGGCCTTATGTCAAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTATGGAAAGGTGAAAGGGCGGAAGAAAGCAGGAAAAGGAAGAACCATGTATTATAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3289 CATGGTGATCTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAAGAATCAATTTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 CATGGTGATCTGTGATTTTCAAGACCTTTAATCCATTTTTGAAAGAATCAATTTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3527 AACGCAGGTTGGTAGTAAAATGCATGACAGACAGTAGGGGACGATAAAACTTTAAAATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AACGCAGGTTGGTAAAATGCATGACAGACAGTAGGGGGACGATAAAACTTTAAAATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 637;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 611.8; DB 5;
Pred. No. 2.4e-144;
3; Mismatches 0;
```

540

900

```
AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCA 3826
                                                                                                                                                                                          3827 TCTGCATTTGACTTGGAGAGAAAGAATGAATGTTAGGACCTATATCTGGTTTTCTATT 3886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3289 CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAAGAATCAATTTCATA 3347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3348 TTTGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTGCTGGTAGCTTCAGAAAG 3407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CACAGGAGGAGAGCAATGTTGT-GAGAAAGATCAACAGGAGGAGAAACTGTCAGAG 3466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3467 CTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCGTTGGGGGGTAAAAGCAG 3526
                                                                                              421 GGACAATGGTGACAAGGTTTTTCYTGAAATAATGCAAATATGATAGATTAGAGGAATTTC 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121 CACAGGAGGAGAGCAATGTTGTTCATGAGAAAGATCAACAGGAGGAAACTGTCAGAG 180
301 TTATAGTCTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    riridcaaridddrigccardriddaadacrdarraridcriririridcriddradada 120
                                         1707 GGACAATGGTGACAAGGTTTTTCTTGAAATAATGCAAATATGATAGATTAGAGGAATTTC
                                                                                                                                                     AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCA
                                                                                                                                                                                                          1 CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCATTTTTGAAAGAATCAATTTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .;
?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 637;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                AACTAAAGCAAGTGGAAAAGACTTATTTGGTATTTTT 3923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 611.8; DB 6;
Pred. No. 2.4e-144;
3; Mismatches 0;
                                                                                                                                                                                                                                                                          AACTAAAGCAAGTGGAAAAGACTTATTTGGTATTTTT
                                                                                                                                                                                                                                                                                                                                             Sequence 208140, Application US/10027632
Publication No. US20030204075A9
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12.8%;
99.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 12.8
Best Local Similarity 99.2
Matches 632; Conservative
                                                                                                                                                                                                                                                                                                                                  US-10-027-632-208140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: Human
US-10-027-632-208140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 208140
LENGTH: 637
                           3647
                                                                                                                                     3767
                                                                                                                                                               481
                                                                                                                                                                                                                                                3887
                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3408
                         8
                                                   유
                                                                          8
                                                                                                    g
                                                                                                                                   8
                                                                                                                                                            셤
                                                                                                                                                                                        à
                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AACGCAGGTTGGTAGTAAAATGCATGACAGACAGTAGGGGACGATAAACTTTAAAATTCT 3586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTATAGTCTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA 3646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATGGTGATCTGTGTGTTTTCAAGACCTTTAATCCA-TTTTGAAAGAATCAATTTCATA 3347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTTGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTTGCTGGTAGCTTCAGAAAG 3407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CACAGGAGGGAGAGCAATGTTGTTCATGAGAAAGATCAACAGGAGAGAAACTGTCAGAG 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 AACGCAGGTTGGTAGTAAAATGCATGACAGACAGTAGGGGACGATAAACTTTAAAATTCT 300
                                                                                           TCTGCATTTGACTTGGAGAGAAAGAATGAATGTTAGGACCTATATCTGGTTTTCTATT 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 TTTGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTTGCTGGTAGCTTCAGAAAG 120
                                                                                                                                                                                                    CACAGGAGGAGAGCAATGTTGTTCA-GAGAAGATCAACAGGAGGAGAAACTGTCAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crercreaaraggeregriringgeaggearraarrecererrergeaggraaaageag
                                        481 AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTTCCTCTTCGATTAAGTTTTGGGATCCTCA
                                                                   TCTGCATTTGACTTGGAGAGAGAAGAATGAATGTTAGGACCTATATCTGGTTTTTCTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATGGTGATCTGTGTGTTTTTCAAGACCTTTTAATCCATTTTTGAAAGAATCAATTTCATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCGTTGGGGGTAAAAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 637;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                      3887 AACTAAAGCAAGTGGAAAAGACTTATTTGGTATTTT 3923
                                                                                                                                      AACTAAAGCAAGTGGAAAAGACTTAFTTGGTATTTTT 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 611.8; DB 5;
Pred. No. 2.4e-144;
3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 99.2%;
Matches 632; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-10-027-632-208142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Human
                                                                                           541
                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3527
                                                                 3827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3587
            3767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                셤
                                                                ઠ
                                                                                                                      ઠે
                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
```

```
g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                   음
등
                                                                                                                                                                                                           요 요
                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                        셤
                                                             Š
                                                                                    g
                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCA-TTTTGAAAGAATCAATTTCATA 3347
                                                  3586
                                                                                                                                                                                                                                    GGACAATGGTGACAAGGTTTTCTTGAAATAATGCAAATATGATAGATTAGAGAATTTC 3766
                                                                                                                                                                                                                                                                                                                                                                 TCTGCATTTGACTTGGAGAGAAAGAATGAATGTTAGGACCTATATCTGGTTTTCTATT 3886
                                                                                                                                                                                                                                                                                                     AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTCTTCGATTAAGTTTGGGATCCTCA 3826
                                                                                                                                        TTATAGTCTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA 360
                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-027/-028-2-208141, Application US/10027632

Sequence 208141, Application US/10027632

Publication No. US20030204075A9

GENERAL INFORMATION:

APPLICANT: Wang, David G.

TITLE OF INVENTION: Telentification and Mapping of Single Nucleotide

TITLE OF INVENTION: Polymorphisms in the Human Genome

TITLE OF INVENTION: Polymorphisms in the Human Genome

FILE REFERENCE: 108827.129

CURRENT APPLICATION NUMBER: US 60/218,006

PRIOR PILING DATE: 2000-07-12

PRIOR PLILING DATE: 2000-04-20

PRIOR PLILING DATE: 2000-04-20

PRIOR FILING DATE: 2000-03-29

PRIOR FILING DATE: 2000-03-29

PRIOR FILING DATE: 1999-11-23

PRIOR FILING DATE: 1999-11-23

PRIOR FILING DATE: 1999-09-08-08

PRIOR FILING DATE: 1999-08-08

PRIOR APPLICATION NUMBER: US 60/146,002

PRIOR APPLICATION NUMBER: US 60/146,002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATGGTGATCTGTGTGATTTTCAAGACCTTTAATCCATTTTTGAAAGAATCAATTTCATA
                                                               CTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTYGTTGGGGGGTAAAAGGAG
                                                                                                              TTATAGTCTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA
                                                                                                                                                                           AACGCAGGTTGGTAAAATGCATGACAGACAGTAGGGGACGATAAAACTTTAAAATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .;
7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 637;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                               3887 AACTAAAGCAAGTGGAAAAGACTTATTTGGTATTTT 3923
                                                                                                                                                                                                                                                                                                                                                                                                                                               AACTAAAGCAAGTGGAAAAGACTTATTTGGTATTTTT 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 611.8; DB 6;
Pred. No. 2.4e-144;
3; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12.8%;
99.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 12.8 Best Local Similarity 99.2 Matches 632; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: HUMBII
US-10-027-632-208141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
US-10-027-632-208141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                                     3767
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3289
                                                                                                                                             301
                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                   3827
                                                  3527
                                                                                                                3587
                                                                                                                                                                            3647
                                                                                                                                                                                                                                         3707
                                                                                                                                                                                                                                                                                                                                                                                                  541
                                                                                 241
                     181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                         8 6 8 6 8 6 8
                                                                                                                                                                                                                                                                                           8686
                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                ò
```

```
CIGICIGAAATAGGGTGGTTTTGGGAGCCATTAATTCCCTCTCGTTGGGGGTAAAAGCAG 3526
                                                                                                                                                                                                                                          3766
                                                                                                                                                                                                                                                                                 3826
                                                                                                                                                                                                                                                                                                                       3466
                                                                                                                      3527 AACGCAGGTTGGTAATAAATGCATGACAGACAGTAGGGGACGATAAACTTTAAAATTCT 3586
                                                                                                                                                           TTATAGICTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTGGCCTTATGTCAAAAGAA 3646
                                                                                                                                                                                                 540
TTTGCAATGGGTTGCCATGTGGAAGAGTGATTATGCTTTTTTTGCTGGTAGCTTCAGAAAG 3407
                                                                                                                                 421 GGACAATGGTGACAAGGTTTTTCYTGAAATAATGCAAATATGATAGATTAGAGGAATTTC 480
                                                                                                                                                                                                                                          CACAGGAGGGAGGAATGTTGTTCA-GAGAAAGATCAACAGGAGGAGAAAACTGTCAGAG
                                                                                                                                                                                                                                                                                 AGTAGGGAATGCTTTTCACTTGAATTTGGGTTTCCTTCTTCGATTAAGTTTGGGATCCTCA
                                                                                                                                                                                                                                                                                               3767
   3348
                     61
                                         3408
                                                            121
                                                                                3467
                                                                                                   181
                                                                                                                                          241
                                                                                                                                                             3587
                                                                                                                                                                                  301
                                                                                                                                                                                                      3647
                                                                                                                                                                                                                                             3707
                                                                                                                                                                                                                                                                                                                           3827
```

Search completed: December 21, 2005, 21:08:41 Job time : 2425.07 secs

```
Sequence 61, Appl
Sequence 9, Appli
Sequence 13235, A
Sequence 13286, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          153, App
18, Appl
9, Appli
7, Appli
71, Appl
13312, A
58, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13396, A
54, Appl
53, Appl
                                                                                                                        December 20, 2005, 13:17:12; Search time 334.473 Seconds (without alignments) 7442.822 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13244, P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 153, 7
Sequence 18, Ar
Sequence 9, App
Sequence 7, App
                                                                                                                                                                                                                                                             1 tgcacaagcagaatcttcag......gatgccccaaagcgatttt 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 42
Sequence 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 5
Sequence 1
Sequence 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cgn2_6/ptodata/2/pubpna/USO8_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USO9_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USO9_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USI0_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*
/cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq2:*
/cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq2:*
/cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq2:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-11-177-987-26

US-11-177-987-8

US-11-177-987-25

US-11-177-987-25

US-11-177-987-18

US-11-177-987-18

US-11-177-987-18

US-11-177-987-7

US-11-177-987-7

US-11-121-086-71

US-11-121-086-71

US-11-121-086-58

US-11-121-086-58

US-11-121-086-60

US-11-121-086-60

US-11-121-086-60

US-11-121-086-60

US-11-121-086-60

US-11-121-086-60

US-11-121-088-54

US-11-121-088-54
                                                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                        4168288 segs, 259477437 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Published_Applications_NA_New:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                    OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                      IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                          US-09-751-797-25
4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   191091
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          180654
                                                                                                                                                                                                                 Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       106.4
105.8
104.8
103.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        686
650
258
244
159.4
127.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121.6
118.6
                                                                                                                                                                                                                                                                                                        Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 113.8
                                                                                                                                                                                                                                                               Sequence:
                                                                                                                                                                                                                                                                                                                                                                        Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database
                                                                                                                               Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Result
No.
```

	4 102.8	٠.	e us	JS-10-995-561-13473	Sequence 13473, A
0	5 100.6	160213	_	JS-11-121-086-103	Sequence 103, App
0	6 97.2	86131	e us	JS-10-995-561-13298	Sequence 13298, A
0	7 95.2	2.0 217623	7 US	JS-11-112-908-33	Sequence 33, Appl
2	8 95	2.0 154452	7 US	JS-11-121-086-74	74,
7	9 94.8	2.0 207600	v us	US-11-112-908-31	Sequence 31, Appl
٣	0 94.2	2.0 150450	7 US	US-11-112-908-54	Sequence 54, Appl
m	1 94.2	2.0 191343	7 US	US-11-112-908-53	
m		2.0 201990	e us	US-10-995-561-13303	133
m	3 94	2.0 149382	e us	US-10-995-561-13272	Sequence 13272, A
m	4 88.6	1.8 191331	7 US	-11-112-908-20	Sequence 20, Appl
9	5 86.8	1.8 189252	7 US	-11-121-086-54	Sequence 54, Appl
Ö		1.8 246960	7 US	-11-121-086-8	Sequence 8, Appli
e	7 84.8	1.8 156297	7 US	US-11-121-086-65	Sequence 65, Appl
m			e us	US-10-995-561-28667	Sequence 28667, A
3	39 81.2	1.7 1080000	n 9	US-10-928-446A-1	Sequence 1, Appli
0		1.7 1080000	n 9	US-10-928-446A-181	Sequence 181, App
0	41 81.2	1.7 1080000	9	US-10-928-446A-183	Sequence 183, App
•		1.7 1080000	_	US-10-928-446A-185	185,
0	43 81.2	1.7 1080000	9	US-10-928-446A-187	187,
4	44 81.2	1.7 1080000	9	US-10-928-446A-189	189,
Ω 4	5 81.2	1.7 1080000	n 9	JS-10-928-446A-191	191,
				ALIGNMENTS	
				•	

```
APPLICANT: Remaild, Jean-Christophe
APPLICANT: Remaild, Jean-Christophe
APPLICANT: Remaild, Jean-Christophe
APPLICANT: Remaild, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REFRENCE: LUD 5664
CURRENT APPLICATION NUMBER: US/11/17,987
CURRENT FILING DATE: 2000-07-27
PRIOR FILING DATE: 2000-07-27
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-16
PRIOR PRILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-10-26
PRIOR FILING DATE: 1999-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CCACCAGCTGCCTCCTCTCTCTTGGCCCTCTTGGTACAGGAGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 CCACCAGCTGCCTCCTTCTCTTGGCCCTCTTGGTACAGGGAGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 recacascasaarcricasaacascricriccricccascacascricascricascricascricascrias 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 AATTGICTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 IGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 4797;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; Score 4797; I
; Pred. No. 0;
0; Mismatches
                   Sequence 26, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 100.
Matches 4797; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
US-11-177-987-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-11-177-987-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
```

US-10-995-561-13235 US-10-995-561-13286

105550 (

1321 GCTGTGGAMATGGAMATGGTGTTAAGTGTTGAGGGGAGGG	2341 IGGIACCAITAATICITAGGGAAATITCAGAITCCTAITGACTCAIGTAATCTGAAGAAG 2400
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	& A
GCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	1201 TTGAGTTTATAGTGGTGATGGGGTCTGGAACTTAAGTGTACAGAAGCGCATTGGTTG 1260 1261 TCTTCGGAAAAAGGCAACTCAGGTTGCGTAAGATGAGAAAGGTGTTGGGAAAACATCTA 1320

\$ B

8 6 8 6 8 6 8 6 8 6

	4441 GRGGCTCTCAGTCCAGAGCCGTCATTTAAGCTCTTTGGCAAATCATACAATACTAA 4500 4441 GTGGCCTCTCAGTCCAGAGCCGTCATTTAAGCTCTTTGGCAAATCATACAATACTAA 4500 4501 AGGCATATTACTATGAATGTTTTACAATGCTTAAAACTCGGCTTTCTGTCTCCATCAACC 4560
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	8 8 8 8
TACTIGETTRAAAACAGAAAATGCCTATGGGCAAATTTATTTGAAGTCATTTTTGAAGT TACTIGETTTAAAAACAGAAAAATGCCTATGGGCAAATTTATTTTTTTT	3301 TGTGATTTTCAAGACCTTTAATCCATTTTGAAAGAATCAATTTCATATTTGCAATGGGTT 3360 3361 GCCATGTGGAAGAGTGATTATGCTTTTTGCTGGTAGGTTCAGAAAGCACAGGAGGGAG

8 8 8 8 8 8 8 8 8 8 8 8 8

4621	CTIGGCCTTCAGGACACATATACTACAGGGGGGGTTTTAGAAGCA 2500 CTGACGCACACATATACCTCTCAGGATTTTCTACAGGGCATTTAGAAGCA 2500 CTGACGCACACACATATCCTCTCTGGGCATTCTCAGGCACACACA
### Processor	
TAGGAATTAGATTAGATTTTT 4797 TAGGAATTAGATTAGATGCCCAAAGCGATTTTT 4797 TAGGAATTAGATTAGATGCCCCAAAGCGATTTTT 4797 TAGGAATTAGATTAGATGCCCCAAAGCGATTTTT 4797 TAGGAATTAGATTAGATGCCCCAAAGCGATTTTT 4797 TAGGAATTAGATTAGATGCCCCAAAGCGATTTTT 4797 TAGGAATTAGAATTGTCTGCAAAGCGATTTTT 4797 TAGGAATTAGAATTGTCTGCAAAGCGATTTTT 4797 TAGGAACCTTGGCACTTGCTTGCTTGCTTGCTTGCTTGCT	
7 phe cate Acid Molecules which Encode T Cell Inducible Fac 21, The Proteins Encoded, and Uses Thereof 21, The Proteins Encoded, and Uses Thereof 22, 715 26, 617 26, 617 27, 987 26, 617 28, 973 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 568 29, 573 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	
phe acid Molecules which Encode T Cell Inducible Fac	
and—Christophe lated Nucleic Acid Molecules which Encode T Cell Inducible Factoristic Pactoristic Acid Molecules which Encoded, and Uses Thereof Bar (11/177,987) Bar (18/11/177,987) Bar (18/11/11/11/11/11/11/11/11/11/11/11/11/1	
BBER: US/11/177,987 005-07-07 R: US/09/626,617 R: US/09/626,617 R: US/09/419,568 DD	
R: US09/419,568 R: US09/354,243 R: US09/354,24	
R: US09/178,973 -10-26 -10-26 3 -10-26 -10-298 -10-	andarcagigciaccigaigandaggagciccicaacticaccciggaagacgiic 2877
14.3%; Score 686; DB 7; Length 7445; 53.8%; Pred. No. 1.4e-172; ive 0; Mismatches 1875; Indels 393; Gaps 44; TCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCGGCCTGCAGAA 88 TTTCCTAATGGGGACCTTGGCGATCTTGCAGATGCTGCAGAA 2093 TTTCCTTATGGGGACCTTGCTGCTCTTTGGCCT 148 DD 3118	TGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGCGTGCCCTTCCTGGCCA 988
A4; B8 COY 1049 B8 COY 1109 B8 COY 1109 COY 1162 148 DD 3118	GGCTCAGCAACAGGCTAAGCACGTGAAGTTCAGCTCTCAGCCTATGCCCACCTACCC 1048
44; Qy 1109 88 Db 3058 2093 Qy 1162 148 Db 3118	CICCTTCCTTCCACAGAGCCCCTTACCCCAACTCTCTCTCTC
2093 Qy 1162 148 Db 3118	TAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAGTGTTATCAGGAGTCATTTGGG 1161
	atcatagagtatttgcttttgctcagtcacactcttgagtttatagggggagg 1221
2153 Qy 1222 208 Db 3178	GGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTGTCTTCGGAAAAAGGCAACTC 1281
2213 Qy 1282 268 Db 3238	AGGTTGCGTAAGATGAGAAAGGTGTTGG 1309
CTTCA 328 Db 3298	GAAAACATCTAGCTGTGGAAATGGATCCATTGAGTCTAAGTTGTTGAGGGGAGGGGATGG 1369
GAAGCACTIGCAAACTCTTTAGGGG 2333 GY 1370 TCCCTGAGGGTAGATAATTTTCTG 388 TCCCTGAGGGTAGATAATTTTCTG 388 Db 3358	CATGGAGAGAAATTAGAAGAAAGGGGAAATGGGAAGGCTTAAA
TTCCAT 448 Oy	1416GTCGGTGGTGGTCGCAGACTGTTGCCCTGTTGATGTCATGGGA 1460 [11]

2537 AATTICIGGAGTAATAAACACITAITIGAATIAICATAATATCTAICAGATA 2589	2590 TIGAITATAGTITAAAAGCAAGACCAGACAACC-CCGAICTCTTTTATACAGGTICAAAT 2648 	2649 AGAGTAAAATATTAGTAAGAGATTTATTATAAATGGAAGTCTGAATTGGTAAGCT 2708 	2709 ITITITICTCCCCCCATCAAGACCTICCATCTAGITTCTTCCTTCACTCCCTCA 2768	2769 ACAAATCCCTAGGGGGGCTTTATCCATGGGGGCTGGTGTACATTTCTATAGTGAATGAT 2828	2829 ACCATCATGTGGCCTATTTGGTGAAAGAACAACAATGGAAGGCTTAGACTAACAATA 2886 	2887 GTGACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGTGACGCTCTT-GCAAG 2945	2946 CAGGTACAAATACTCAGAAACATGAAGGCTCCAGTTGATGGAATTTTCAGTAACAA 3005 	3006 GCTTAACCTTAATTCCCCCTTTTTCCCTCTGACTTTTTAAAAAGGGTTTCTTCCTGAG 3065 4993 ATCTACCCTTATCTCCTCTATCGAACCTAAATCGTCTCTTTTTCTTGTG 5042	3066 CATCATTTAATGAGTGTGACTGTTTCTTCCTTTGATAATTGAAGGCTTTGTAGTTTTAAA 3125 	3126 TTGTGAAGCCCAGTTCTTTTTTTAAGAACTATTATCTAGACAGGGGTGAATGTTA 3185	3186 GCAIGCCACAGACAAGGCAIGCTTIACACAICTIGCTIAAAAAAITACIGAITICAICIT 3245 	3246 GCTTGTTGTTTAGAAAAGTGAAGAGTGAGAGAAATCTCATGGTGA 3296 	3297TCTGTGTGTTTTCAGACCTTTAATCCATTTTGAAAGAATGAAT	3343 TCATAITIGCAAIGGGITGCCARCIGGAAGAGIGAITAIGCITITITIGCTGGTAGCITCA 3402	3403 GAAAGCA-CAGGAGGAAAGCAATGTTCAGAGAAAAGATCAACAGAGAGAAAACTGT 3461 	3462 CAGAGCTGTCTGAAATAGGGTGGTTTTGGGAGGCATTAATTCCCTCTCGTTCGGGGTAAA 3521 	3522 AGCAGAACGCAGGTAGTAAAAT-GCATGACAGACAGTAGGGGACGATAAACTTTAA 3580 	AATTCTTTATAGTCTTTGGAGTCTTTGAGATAGAAAGAATATCTTTTTTGGCCTTATGTCA
GAAAAAA 1520 QY		GGCITIT 3594 QY ATACGAT 1640 Db						TGCAGLA 3932 QY CAGTGAA 2000 Db CAGTGAA 3992					CAGICIC 4227 QY TCTCCTG 2296 Db		AAAAACA 2416 Db Db Db Db Db Db Db D		TAGGGCT 2536 Db	4520
1461 AGCCACAAAATCGGAGGGGGGTGTGAACTTGATGCCGCTGAACATTGAAAAAAAA	1521 AGTTTGAGTGGGCCCAGTAAAGGCCCTAGGACTTACTGAGAGGGCTTAATTTT 1521 AGTTTGAGTGGGCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGGCCTTAATTTT	1597 ALCCACGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		CTCAGTAGGATTTCCCAAAGATGAAGAGAGGTCT			1881 GAGGTTCATAAAGTTTCAGCACAACATTAAGATAGTTATGCTTGTTATTGTTTTATAGCA	38/4 AGSIALIGGGCILCCARCGGALAAGAITCIGITAGIGA-GICIGCITITATITIG 1941 TATTGAAGGTGATGACTGCATATCCAGAGGAATGTGCAAAAGGTGAAGGACACA 3933 CATCAACGGAGAACACAAAAATCAGAAAAATCAGAAAAAAAA	2001 AAAGGTAGGACTGATAACTGTCAATGCTAAGTCATGCAATAGGAGAGACAAATGTTGTTT 2002 AAAGGTAGGACTGATAACTGTCAATGCTAAGTCAATGCAAATGGAGAAAAGTTGTTTT	2061 ITCTITCTTTCTTCCATCCATCATTGGGATTITCACTGG GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG			2237 ATAACCTCAGATCACAATICTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTC 2237 ATAACCTCAGATTCTCGGGGATGGTCAGTGCAGAGAAAGGGCTAGAATGCAGGTCTCCTG	2297 AATCCCAAGCACTTTTCCCGGTGATACAGATTAGTTTTGGTACCATTATTCTCT	4288 ATTCCCAGCTTGCCTATTGGCCAGGGGGGAATTGGCTTGGTTAAGAACA 2357 TAGGGAAATTTCAGATTCCTATTGACTCAGAATCTGAAGAAGTACTTGTTAAAAACA 4288 ATTCCAGATTCCTATTGACTCATGTAATCTGAAGAAGTACTTGTTAAAAACA 4288 ATTCCAGATTCCTATTGACTAGTGTAATCTGAAGAAGTACTTGTTAAAAACA 4288 ATTCCAGAGAAATTAAAAAAACA 4288 ATTCCAGAGAAATTAAAAAAAAAAAAAAAAAAAAAAAAA	2417 GAAAATGCCTATGGGCAAATTTATTTGAAGTCTTTTTGAAGTCATTATTGCTT [4405 GAMAGCIGGGCACAMACITACIACAMATGATITITIGAGCICALIMACGGATGCIC 2477 TGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAGAGCTGGCATATAGGGCT	4461 TGAAATGTGGCAAAATCAACCCAGAATAACAACAAAAGAGCTGGATTTGCAA

1571 GCTTAATTTCACATGAGATGTTTTATGTACATTTCTTGTTCTAAGCATGCAATTTTCTG 1858 CGCGGCTTTCACACGAGAAACTTTATGCTCATCTTGTGCTACACTCCCACCTTTGAT 1631 GAGATACGATTATTCCTTACAGAATTTGCATAAACTACTCCGCTCTTTCAC 1918 GAGGTTAAGCTTTATTCCTTACAGAATTTGCATAAACGACTCTTCCAC 1691 AAATGCAAACCTCAGTAGGATTTCCTTCCCAAGATGAAGAGAGGAGACT 1691 AAATGCAAACCTCAGTAGGATTTCCCCAAGATGAAGAGAGAG	1751 CIGANTICTIGGCGTCCAAGGGAATTCAAGAAATCTAGGTCACTGTAAATC	Oy 1991 ACACAGTGAAAAGGTGGATGATCTCTCATGCTAAGTCATGCAATAGGAGACA 2050 . DD 2256 AGACAGTGAAAAGGTACTATTGGCAAGCCACTATGATTGTAGTAGGAGACGTG 2315 OY 2051 AATGTTGTTTTCTTTCTTTCTTCCACTATGATTTTTCATTGATTG	2491 2287 2551 2610 2407 2668 2467 2724 2724 2724 2527 2527
764 CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGGGTTTAGAAGCCA 821 509 CTGATGATTTTTTTTTCCTTTATGCTCTGTGCATTGTTCTAAACTCATGCACATCTG 568		TGTTCCTCCATCGATGGTTCCAGCCTTATATGCAGGAGGTGGTCCCTTCCTGGCCA 988 TGTTCCTCCATCTGATGGTTCCAGCCTTATATGCAGGAGGTGGTGCCCTTCCTGGCCA 988 TGCTCCCCCAGTCAGACAGGTTCCGCCTTATATGCAGGAGGTGGTGCCTTTCCTGACCA 1258 GGCTCAGCAACAGGCTAAGCACATGTAAGTTCAGCTCTCAGCTATGCTCCTTCTCTCTC	16.2 ATGATAGGATTTTGCTTTTGACTGAGTCACATCTTGAGTGTGTGT

```
| GENERAL INFORMATION:
| JABLICANT: Goddard, Audrey |
| APPLICANT: Goddard, Audrey |
| APPLICANT: Goddard, Audrey |
| APPLICANT: Grimaldi, Christopher J. |
| APPLICANT: Grimaldi, Christopher J. |
| APPLICANT: Gurney, Austin L. |
| APPLICANT: Wood, William I. |
| TITLE OF INVENTION: ENPHAGEAL TUMOR |
| TITLE OF INVENTION: ENPHAGEAL TUMOR |
| TITLE OF INVENTION: ENPHAGEAL TUMOR |
| FILE REFERENCE: P3230R.Clo6C |
| CURRENT APPLICATION NUMBER: US/11/102,240 |
| FRICK APPLICATION NUMBER: 10/06862 |
| PRICK FILING DATE: 2002-05-07 |
| PRICK FILING DATE: 2000-08-24 |
| PRICK FILING DATE: 2000-08-24 |
| PRICK APPLICATION NUMBER: FCT/USO0/23328 |
| PRICK APPLICATION NUMBER: FCT/USO0/23328 |
| PRICK APPLICATION NUMBER: 60/170262 |
| PRICK APPLICATION NUMBER: 60/170262 |
| PRICK APPLICATION NUMBER: 199-12-09 |
| NUMBER OF SEQ ID NOS: 170 |
| SEQ ID NO 153 |
| TRACTH: 152
                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      134
                                                                                                                                                                                      AATTGTCTGCAATGGCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                     61 AATTGTCTGCAATGGCCGCCCTGCAGAATCTGTGAGCTCTTTCCTTATGGGGACCCTGG 120
                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                            240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 GCCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTC 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITCITITGCCCCTCTTGGTACAGGGAGGAGCTGCGCCCCATCAGCTCCCACTGCAGG 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 254
                                                                                                                                                                                                                                                                                  CCACCAGCTGCCTCCTTCGCCCTCTTGGTACAGGGAGGAGCAGCTGCGCCCATCA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                              GCTCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT
                                                                                                                                                                                                                                                                                                                                                                                                      GCTCCCCACTGCAGGCTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCGCCCTGCAGAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTC
                                                                                                                    CCACCAGCTGCCTCCTTCTTTGGCCCTCTTGGTACAGGAAGAGGAGCAGCTGCGCCCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 cricadaacadriciccricccagicaccagingcicaaginagaarigicaang
                                                                                                 TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTTCCCCAGTCACCAGTTGCTCGAGTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1152;
Length 690;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5.1%; Score 244; DB 7; I. 100.0%; Pred. No. 5.5e-55; tive 0; Mismatches 0;
                     100.0%; Pred. No. 7.1e-59; tive 0; Mismatches 0;
    5.4%; Score 258; DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 153, Application US/11102240; Publication No. US20050260647A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 244; Conservative
    Query Match
Best Local Similarity 100.0
Matches 258; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; ORGANISM: Homo Sapien
US-11-102-240-153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       135
                                                                                                                                                                                                                                                                                                                                                                                 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                195
                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                     g
                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                            ठ
                                                                                                                                                                                                                                                                                                                                                                                                                   음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                   ઠે
                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 25, Application US/11177987

Sequence 25, Application US/11177987

Publication No. USCOS0271619A1

SERERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Renauld, Jean-Christophe

TITLE OF INVENTION: Interleukin.21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin.21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: Interleukin.21, The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: UNMER: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/626,617

PRIOR PLING DATE: 1999-10-18

PRIOR PLING DATE: 1999-10-18

PRIOR PLING DATE: 1999-07-16

PRIOR PLING DATE: 1999-07-16

PRIOR PLING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

SEQ ID NO 25

LENGTH: 690
                                                                                                                                                                                                                                                                                            CTATAGTGAATGATACCATCATGTGGCCTATTTGGTGAAAAGAACA--ACAATGGAAGGC 2872
                                                                                                                                                                                                                                                                                                                                       GACGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG 2990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AATTITCAGTAACAAGCTTAACCTTAATTCCCCCTTTTTCCCTTTGACTTTTTAAAAA 3050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AATTATCAGTAAGATATCTACCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCGTTTCTTCCTGAGCATCATTTAATGAGTGTGACTGTTTTCTTCCTTTGATAATTGAAGG 3110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3314 rererectrererererasecreataaseaceerrere-rerriteaenerreares 3371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTTGTAGTTTTAAATTGTGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATG 3170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGT--TAGAGGGTTTGTTACCTTGACACC 3429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3171 GAGGGCTGAATGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAAT 3230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3430 resecrresaretrascareccaasecacacarrereaarecciereraaaaserrar 3489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3490 TATTCATTTACT-----TTGTCTTTGGAAAGGTGAAGTGTGTGTGTGAAGAAGAACTCA 3541
                                                                                                                                               reagriceaaacc---crirccriracririraccricarricriracriarrirrir 3020
                                                                                                                                                                                                                                             3021 TCTTCACACCCTGATCAAGCCACTAGTAAGCACCTATCTGCTGCGAGCTATTATATGACT 3080
                                                                                                                                                                                                                                                                                                                                                                                     TTAGACTAACAA-TAGTGACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGT 2931
                                                  CCTTCACTCCCTCAACAAATCCCTAGGGAGCATTTATCCATGGTGGGCTGGTGTACATTT 2814
         2635 ATACAGGTTCAAATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTC 2694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGAATTGGTAAGCTTTTTTTTTTCTTCCTCCCATCAAGACCTTCCATTCTAGTTTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
US-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                    3141 '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3372
                                                                                                                                                                                                                                                                                              2815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3231
                                                       2904
                                                                                                        2695
                                                                                                                                                    2964
                                                                                                                                                                                                                                                                                                                                                                                        2873
                                                                                                                                                                                                  2755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
```

셤

8 g ð

8 8 ò

ò

음 상 음

셤 ò 8 & 8

임

g

ઠે

ઠ

```
APPLICANT: Numerical Laure

APPLICANT: Remaild, Jean-Christophe
APPLICANT: Remaild, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REPREBNCE: LUD 5664
CURRENT APPLICATION NUMBER: US/11/17, 987
CURRENT FILING DATE: 2005-07-07
PRIOR PELLING DATE: 2000-07-27
PRIOR APPLICATION NUMBER: US/99/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-07-16
PRIOR PRIOR PRIOR DATE: 1999-07-16
PRIOR FILING DATE: 1999-07-16
PRIOR PRIOR PRIOR DATE: 1999-07-16
PRIOR PRIOR PRIOR DATE: 1999-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    127 GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              129 gradacccadaagadaaracaccaccaccacacacccagaccaagaracaa 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   67 Archardadrintroccritaregeaacriregecececeaecrecricerrocarreceer
                                                                                                                                                                                                                                                                                                                                                                                                                           29 CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crcrcrcrchadrahchachrrrranchrcharacharcahcharahdacharah

    ercrererearinateariangacacingracamentereariereariesereneriagaa

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       89 ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        149 CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29 CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         crirca de cade caracarea de cade de contrar de consecuencia de contrar de con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             209 CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                              2.7%; Score 127.6; DB 7; Length 1111; 72.2%; Pred. No. 7e-24; Indels 0; Mismatches 64; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            89 ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 126; DB
Pred. No. 1.9e-
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 7, Application US/11177987
Publication No. US20050271619A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 2.6%;
Best Local Similarity 71.7%;
Matches 165; Conservative
                                                                                                                                                                                                                                                                                                                                                 Conservative
                                       LENGTH: 1111
TYPE: DNA
ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Mus musculus
                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 166; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 1119
                                                                                                                                                            ; FEATURE:
US-11-177-987-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         187
       SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Renaudid, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE REPREBNCE: LUD 5664
CURRENT APPLICATION NUMBER: US/09/626,617
PRIOR APPLICATION NUMBER: US/09/626,617
PRIOR PILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: US/09/354,243
PRIOR APPLICATION NUMBER: US/09/354,243
PRIOR PILING DATE: 1999-10-16
PRIOR PILING DATE: 1999-10-16
PRIOR PILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               T Cell Inducible Fad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 9, Application US/11177987;
Sequence 9, Application US/11177987;
Publication No. US20050271619A1
GENERAL INFORMATION:
GENERAL INFORMATION:
THORMATION:
APPLICANT: Remaild, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
FILE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
CURRENT APPLICATION NUMBER: US/11/17,987
CURRENT APPLICATION NUMBER: US/11/17,987
FRIOR PILING DATE: 2005-07-07
FRIOR APPLICATION NUMBER: US/09/626,617
FRIOR PILING DATE: 1999-10-18
FRIOR PILING DATE: 1999-10-18
FRIOR APPLICATION NUMBER: US/09/54,243
FRIOR APPLICATION NUMBER: US/09/54,243
FRIOR APPLICATION NUMBER: US/09/178,973
FRIOR RILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181 CTTGACAAGTCCAACTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAG 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         157 AAAGCTIGGAGAGAGAGAGAGATCAAAGCAATIGGAGAAACTGGATTIGCTGTITAIGIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4637 ACAGCTTGGAGAGAGAGAGAGATCAAAGCAATTGGAGAACTGGATTTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3.3%; Score 159.4; DB 7; Length 418; 99.4%; Pred. No. 1.1e-32;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCCTGCTAGAAATAACAATTAGATGCCCCAAAGCGATTTT 4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cccrecradaarracaarragargccccaaagcgarrirr 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                     Sequence 18, Application US/11177987
Publication No. US20050271619A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                          255 GAGG 258
                                                                                                                                                 GAGG 244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Simi
Matches 160;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-11-177-987-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 7
US-11-177-987-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEO ID NO 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      217
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4697
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE
셤
                                                                          ò
                                                                                                                                         ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
```

용

```
110026 richangecriechedecrecarecaeceredecraegeraegeriegachedecrarinag 109967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    110206 ATATTTTAGAACAGGTTGTCCAATCTTTTGGCTTCCCTGGGCCACATTGGAAGAAGAAG 110147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               110146 AATTGTCTTGGGGCACACATAAAATACACTAACACTAACGATTGCTGATGAGCTTAAAAA 110087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             110086 AAATCACAAAAAAAGTCTCTTAATGTTTTAAGAAAGTTTATGAATTTGTGTTGGGCTGCA 110027
                                                           11164 GGGCCACAGATAAAATACACTAACAATAGCTGATAAGCTTTAAAAAAACTGCAA 11223
                                                                                                                                                                                                                                     4194 ITCAAAGCIGICCIIGGGCCAIGIGGGCCIGIGGGCTGCAGGIIGGACAAGCICCIIAIA 4253
                 GGTACACACATAAAAT----ACAAGAACAATAGCTGATGAGC--TAAAAAAGTCCATG 4142
                                                                                                                                                                                                          GICCIGGGCCAIGIGGGCCIGIGGGCIGCAGGTIGGACAAGCICCTIAIAAGIAAICIG 4262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4082 AATTGTCTTGGTACACACATAAAATACAAGAACA-----ATAGCTGATGAGCT--AAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4134 AAGTCCATGCATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTCTGTTAGGGTGCA
                                                                                                                                                        11224 AAAAATCTCACAGTGTTTTAACAAGTTTATGAATTTGTGTTGGGTCACTTTCAAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: POULSEN, TIM S.
APPLICANT: NIELSEN, KIRSTEN V.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES FILE REPERENCE: 09138-6000-000000
CURRENT APPLICATION NUMBER: US/11/121,086
CURRENT FILING DATE: 2005-05-04
PRIOR FILING DATE: 2004-05-04
NUMBER OF SEQ ID NOS: 107
SOFTWARE: PATENTIN VERSION 3.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 106, Application US/11121086
Publication No. US20050266459A1
GENERAL INFORMATION:
APPLICANT: POULSEN, TIM S.
APPLICANT: NIELSEN, KIRSTEN V.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES; FILE REFERENCE: 09138.6000-00000
                                                                                                              4143 CATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match

2.4%; Score 114; DB 7; Length 180654;
Best Local Similarity 75.8%; Pred. No. 9e-19;
Matches 185; Conservative 0; Mismatches 45; Indels 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4028 ATGITTTAAATCAGGAGIGICCAAICATTIGGCIICCCIGGACCACCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-11-121-086-58/c
; Sequence 58, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                109966 AGTA 109963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4254 AGTA 4257
                                                                                                                                                                                                                                                                                                                                                      11344 T 11344
                                                                                                                                                                                                                                                                                                               4263 T 4263
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-121-086-106/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 58
LENGTH: 180654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-11-121-086-58
                        4091
                                                                                                                                                                                                                 4203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                         g
                                                                셤
                                                                                                                 ò
                                                                                                                                                      g
                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11104 TIGIAGATCAGGGGTGTCCAATCTTTTGCCTTCCCCGGGCCACTTGGAAGAATTGTCTT 11163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4139 CATGCATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAA 4198
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAATTGTCTTGGTACACACATAAAATACAAGA--ACAATAGCTGATGAGCTAAAAAAGTC 4138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION: GENERAL SECTION:
APPLICANT: CARGILL, Michele et al.
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENERIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CLOOISS9
CURRENT APPLICATION NUMBER: US/10/995,561
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FEAGLEQ for Windows Version 4.0
SEQ ID NO 13312
LENGTH: 130472
                                                                                                                        Sequence 71, Application US/11121086
| Publication No. US20050266459A1
| Sequence 71, Application US20050266459A1
| GENERAL INFORMATION:
| APPLICANT: POULSEN, TIM S. |
| APPLICANT: NIELSEN, KIRSTEN V. |
| TITLE OF INVENTION: UNCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES |
| FILE REFERENCE: 09138.6000-00000 |
| CURRENT APPLICATION NUMBER: US/11/121,086 |
| CURRENT PAPLICATION NUMBER: 60/567,570 |
| PRIOR PILING DATE: 2004-05-04 |
| NUMBER OF SEQ ID NOS: 107 |
| SOFTWARE: Patentin version 3.3 |
| SEQ ID NO 71 |
| LENTY: 164527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4199 AGCTGTCCTGGGCCATGTGCGGCCTGTGGGCTTGGACAAGCTCCTTATAA 4254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4031 TITIAAATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAAGAATTGTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4027 GAIGITITAAATCAGGAGIGICCAATCATTIGGCTTCCCTGGACCACCTTGA-----AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 130472;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 7; Length 164527;
Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 121.6; DB 7
Pred. No. 7.9e-21;
0; Mismatches 49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. 4.3e-20;
0; Mismatches 54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2.5%; Score 118.6; 74.3%; Pred. No. 4.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 13312, Application US/10995561
Publication No. US20050272054A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 74.3
Matches 179; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
CORGANISM: Homo sapiens
US-10-995-561-13312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
US-10-995-561-13312
                                                                                                  RESULT 9
US-11-121-086-71/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Simi
Matches 179;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ÚS-11-121-086-71
                             189
```

셤

à

셤

à

ò

à

```
TYPE: DNA
ORGANISM: Homo sapiens
US-11-112-908-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 15
US-11-112-908-54/c
                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  යු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ਨੇ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                   120599 TAGAGAATTTAGCTTCCAGGACTGTTCAATCTTTTGGCTTCCCTGGGCCACATTGGAAGA 120540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120479 AAAAATCGCCAAAAAAAAAATTTCATAATGTTTTAAGAAAGTTTATGAATTTGTGTTGG 120420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               147239 ATTATCCATGCCCTAGACCAGGGTGTCCATTCTTTGGCTTCCCTGGGCCTCTTTGGAA 147298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          147299 GAAGAATTGTCTTGGGTCACATATAAAATGCACTAACATTAACATAGCTGATAAGCTAAA 147358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147359 AAAATCCCCCCA-AAATCTCATAGTGTTTGAAGAAAGTTTACGAATTTGTGTGTTGGGTCAC 147417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120419 GCCGCATTCAAAGCCGTCCTGGGCTGCATGTGGCCCACGGGCCGTGGGTTGAACAAGCT 120361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4083 ATTGTCTTGGTACACACATAAAATACAAGAACA-----ATAGCTGATGAGCTAAAAAAG 4136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4137 TCCATGC-----ATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTCTGTTAG 4187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4188 GGTGCATTCAAAGCTGTCCTGGGCCATGTGCGGCCTGTGGGCTGCAGGTTGGACAAGCT 4246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                147418 ATTCAAAGCCATCCTGGGCCGCATGAGGCCTGTGGGCCGTGGGTTGGACAGGCT 147471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4078 AAAGAATTGTCTTGGTACACACATAAAATACAAGAACA----ATAGCTGATGAGCTAAA
                                                                                                                                                                                                                                                                                                                                                                         4023 TAGAGATGTTTTAAATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTGAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       4021 AGTAGAGATGTTTTAAATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTG---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAAGTCCATGCATAAATCTCATACTGTTTTAAGAAAGTTTATGAATTTTCTGTTAGGGTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 60, Application US/11121086
| Publication No. US20050266459A1
| GENERAL INFORMATION: US20050266459A1
| GENERAL INFORMATION: TIM S. APPLICANT: POULSEN, KTRSTEN V. TITLE OF INVENTION: NUCLEIC ACID PROBES PLICANT: NUELSEN, KTRSTEN V. TITLE REFERENCE: 09138.6000-000000
| CURRENT APPLICATION NUMBER: US/11/121,086
| CURRENT PILING DATE: 2005-05-04
| PRIOR FILING DATE: 2004-05-04
| NUMBER: OF SEQ ID NOS: 107
| SEQ ID NO 60
                                                                                                                                                                                                                                                                                                                             15; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTCAAAGCTGTCCTGGGCCATGTGCGGCCTGTGGGCCTGCAGGTTGGACAAGCT 4246
                                                                                                                                                                                                                                                                              Score 113.8; DB 7; Length 179777;
Pred. No. 1e-18;
0; Mismatches 47; Indels 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 7; Length 191091;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 112.4; DB 7; Length:
Pred. No. 2.5e-18;
0; Mismatches 46; Indels
CURRENT APPLICATION NUMBER: US/11/121,086
CURRENT FILING DATE: 2005-05-04
PRIOR APPLICATION NUMBER: 60/567,570
PRIOR FILING DATE: 2004-05-04
NUMBER OF SEQ ID NOS: 107
SOFTWARE: PatentIn version 3.3
SEQ ID NO 106
LENGTH: 179777
                                                                                                                                                                                                                                                                              Query Match 2.4%;
Best Local Similarity 74.1%;
Matches 177; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 2.3%;
Best Local Similarity 76.5%;
Matches 179; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                     TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 191091
                                                                                                                                                                                                                                     US-11-121-086-106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 13
US-11-121-086-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-11-121-086-60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4133
                                                                                                                                                                                                                                                                                                                                                                                                                    윱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
```

```
; LOCATION: (1)...(398287)
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-10-995-561-13396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            78504 AGAAAATCTCATAATGTTTAAGAAAGTTTACGAATTTGTGTTGGGCCGCTTTTCAAAGCCA 78563
                                                                                 TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
TITLE OF INVENTION: DETECTION AND USES THEREOF
FILE REFERENCE: CL001559
CURRENT APPLICATION NUMBER: US/10/995, S61
CURRENT FILING DATE: 2004-11-24
NUMBER OF SEQ ID NOS: 85702
SOFTWARE: FRAETSQ for Windows Version 4.0
SEQ ID NO 13396
LENGTH: 398287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4153 ATACTGT-----TTTAAGAAAGTTTATGAATTTCTGTTAGGGTGCATTCAAAGCTG 4203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78564 CCCTGGGCCTCATGCGGCCCGTGGGCCACATGGTTGGACAAGCTTGCTCTAAGCAGT 78619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4204 TCCTGGGCCATGTGCGGCCTGTGGGCTGCAGGTTGGACAAGCTCCTTATAAGTAAT 4259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4036 AATCAGGAGTGTCCAATCATTTGGCTTCCCTGGACCACCTTG---AAAGAATTGTCTTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4093 TACACACATAAAATACAAGAACAATAGCTGATGAGCTAAAAAAGTCCATGCATAAATCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 398287;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 2.3%; Score 110.4; DB 6; Best Local Similarity 73.3%; Pred. No. 1.4e-17; Matches 173; Conservative 0; Mismatches 51;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 54, Application US/11112908
Publication No. US20050260659A1
GENERAL INPORMATION:
APPLICANT: Harris, Cole
APPLICANT: Davis, Lisa M.
TITLE OF INVENTION: Breast Cancer Biomarkers
FILE REFREENCE: 04-164-US
CURRENT APPLICATION NUMBER: US/11/112,908
CURRENT APPLICATION NUMBER: US 60/564,758
PRIOR APPLICATION NUMBER: US 60/564,758
PRIOR PILING DATE: 2004-04-23
PRIOR FILING DATE: 2004-06-01
PRIOR FILING DATE: 2004-06-01
PRIOR FILING DATE: 2004-11-30
PRIOR FILING DATE: 2004-11-30
PRIOR FILING DATE: 2004-11-30
PRIOR FILING DATE: 2004-11-30
PRIOR FILING DATE: 2004-12-07
NUMBER OF SEQ ID NOS: 511
SOFTWARE: PACENTIN VERSION 3.3
SEQ ID NO 54
ILENGTH: 150450
Sequence 13396, Application US/10995561
Publication No. US20050272054A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: misc_feature
```

Search completed: December 21, 2005, 18:12:04 Job time : 355.473 secs

Н

```
TATCCGACGAGCATGTTCCCCTGATGTTTTTGCCTTTTGCTCTCTCGCTAACAGGCTCTC
                                                                                                                                                                                                                                                                  US-09-178-973B-17
        151.8
151.2
151.2
151.2
151.2
151.2
151.2
151.2
151.2
151.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ч
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        301
                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 29, Appl
Sequence 8, Appli
Sequence 8, Appli
Sequence 8, Appli
Sequence 17185, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Appli
Appli
Appli
Appli
Appli
Appli
Appli
Appli
                                                                     (without alignments)
15704.028 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 25, Appl
Sequence 25, Appl
Sequence 9, Appli
                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                          December 20, 2005, 13:17:12 ; Search time 671.791 Seconds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1
Sequence 1
Sequence 1
                                                                                                                   1 gaattcaagtccacatgcaa......atattatctggtaaagtttg
                                                                                                                                                                                                                                                                                            /cgn2_6/ptodata/1/ina/1_COMB.seq:*
/cgn2_6/ptodata/1/ina/5_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/H_COMB.seq:*
/cgn2_6/ptodata/1/ina/H_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PP_COMB.seq:*
/cgn2_6/ptodata/1/ina/PP_COMB.seq:*
/cgn2_6/ptodata/1/ina/RB_COMB.seq:*
GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-419-568P-29
US-09-419-568P-29
US-09-354-243B-8
US-09-435-8
US-09-419-568P-8
US-09-4419-568P-25
US-09-4419-568P-25
US-09-419-568P-25
US-09-419-568P-9
US-09-419-568P-9
US-09-178-973B-9
US-09-178-973B-7
US-09-178-973B-7
US-09-178-973B-7
US-09-178-978B-7
US-09-354-243B-7
US-10-004-298-3
US-10-004-298-1
US-10-000-365-14
US-09-972B-11-14
US-09-972B-11-14
US-09-970-574-1
US-09-949-016-13747
                                                                                                                                                                                          Potal number of hits satisfying chosen parameters:
                                                                                                                                                                       1303057 seqs, 888780828 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                       nucleic search, using sw model
                                                                                                                                          IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                       Issued Patents NA:*
                                                                                                                                                                                                                Minimum DB seq length: 0 Maximum DB seq length: 200000000
                                                                                                  US-09-751-797-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1152
601
264665
7218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1111
1111
1111
1111
11119
11119
11166
11050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5935
7445
7445
7445
8888
4797
4797
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length
         Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6002.4
6002.4
6002.4
5555.2
5555.2
5555.2
5557.2
516.4
216.4
216.4
171.8
171.8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5935
5935
4245.2
4245.2
4245.2
651.8
650
650
                                                                                                                                           Scoring table:
                                                                                                             Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score
                                        OM nucleic
                                                                                                                        Sequence:
                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                       Database
                                                            о
П
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ģ
                                                           Run
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  טטט
```

```
Sequence 17, Application US/09178973B

Sequence 17, Application US/09178973B

Patent No. 627470

GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIF9)
TITLE OF INVENTION: (TIF9)
TITLE OF INVENTION: (TIF9)
TITLE OF INVENTION: (TIP9)
TITLE OF INVENTION: (TIP9)
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT PILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
LENGTH: 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121 GCACAAGTAAAATGTCAGAGAGATTAGCAAATGTATAGTATTATTTTTTTAAAAAA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                        Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAATTCAAGTCCACATGCAATCCAATCCGAATACTTTGTAAATTCTCTTCTTCAAAATATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       61 ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTTTGTAGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCACAAGTAAAATGTCAGAGAGAATTAGCAAATGTATAGTATTATTTTAAAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTATGCTTAAAATGTCTATTAGATTGTTCACTACTGACATTTCCAAACTTAACTTGACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crarecriaaaarcrearragarrerreacracreacarriceaaacrraacrreaccr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGCTATGATTTCAACCTTTGTATTTGCATCTACCATAACTGTGTGCTCACTTACCATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                 Sequence 5, Sequence 5, Sequence 5, Sequence 5, Sequence 5, Sequence 6, Sequence 6, Sequence 9, Sequence 96, Sequence 96, Sequence 96, Sequence 96, Sequence 96, Sequence 96, Sequence 96,
                                                                                             Sequence
Sequence
Sequence
                    Sequence
Sequence
                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 5935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAATTCAAGTCCACATGCAATCAATCCGAATACTTTGTAAATTCTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 3;
       US-09-443-2828-33
US-09-443-2828-33
US-09-443-2828-33
US-07-807-0438-5
US-08-299-8498-5
US-08-299-8498-5
US-08-95-7-368A-5
US-08-95-7-368A-5
US-09-9583-850-5
US-09-579-197-5
US-09-513-464-5
US-09-312-464-5
US-09-312-284-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -09-657-346A-96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Score 5935; I; Pred. No. 0; 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-657-346A-9
US-09-245-041-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 100.0%;
Matches 5935; Conservative 0
                                                                   11583
44698
44698
44698
44698
44698
44698
44698
31447
31447
31492
31447
31477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Mus musculus
US-09-178-973B-17
\( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \)
```

8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
101 TATICGACGAGCANGTHTGACGTTTTTGCCTTTTTGCTTTTTGCTTTTTGCTTTTTGCTTTTTGCTTTTTGCTTTTTGCTTTTTT

TCAGTCAACTTTGACTTTTATACCATGCATGAAAGAGTGTTTAGGCCGCTCT CGTGGCTCTGGGAAAAGCCACCATTGAAGAGAATGTTATGCCGAGAAATCTTAGGCCGCTCT CGTGGCTCTGGGAAAAGCCACCATTGAGGGGAAGAATGTTATGCCGAGAAATCTGACTGGC AGGGAAACTGGGTCAGAGCTCCCCAAAGACCACTACAGGTGTTAAGCCGAGAAATCTGACTGGC AGGGAAACTGGGTCAGAGCTCCCCAAAGACCACTACAGGTGTTAAGTAAG	4321 AGGTGACTTTCTAAATTCAAGGCCAGGCTTGCAAAGTGGATTCCAGGACAGCCAGG 4380 4321 AGGTGACTTTCTAAATTCAAGGCCAGCTGGTTCCAAAGTTCCAGGACAGCCAGG 4380 4321 AGGTGACTTTCTAAATTCAAGGCCTGCTTGCAAAGTTGAATTCAAGACACACCCAGG 4381 GCTATACAGAGAAAACCCTGTCTCGGGAAAAAAAAAAAA
8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 8 4 8 8 4 8	8 8 8 8 8 8 8 8 8 8 8 8
	3241 AGGAAGGCTCTGGTTGATGGTAAGATATCTACCCTTATCTCTTCTTTTAT 3300 3241 AGGAAGGCTCTGGTTGATGGTAAGATATCTACCCTTATCTCTTCTTTTAT 3300 3301 AGAAGGCTCTGGTTGATGGTAATTATCAGTAAGATATCTACCCTTATCTTCTTTTT 3300 3301 AGAAGCTAAACCGTCTCTCTTGTGTGTGTAGGCTGATAACACGCTTGTTTTTTTT

8 & 8 & 8 8	4681 GGTCTTTGAGACAAGGCTTTTGAATTGAGCCTCAATAGTTGATCATGGTCAGGTGG 4740 4741 AGGGCTACCTGTCAGGCCGGGCCTGGCTTAGCACTTAACATCTCCAGGTCTCAGTA 4800 4741 AGGGCTACCTGTCAGGCCGAGCCCTGCTGGCTTAGCACTTAACATCTCCAGGTCTCAGTA 4800 4801 TCACTTCCTGCTGCTTAGCACAGGTTGAGCAAACCTTTTTTTCCAACCCCACT 4860 4801 TCACTTCCTGCTGCTTAGCACAGGTTGAGCAAACCTTTTTTTT	QY 5821 TAAATCTTCTGTCTTGTAATTTTCTCCCTTTAATACAATACCATCATCGTCATCG 5880 Db 5821 TAAATCTTCTGTCTTGTAATTTTCTCCCTTTAATATCAACAATACCATCGTCGTCATCATCGTCATCATCGTCATCGTCATCATCGTCATCATCGTCATCATCATCGTCATCATCGTCATCATCATCATCATCGTCATCATCATCATCATCATCATCATCATCATCATCATCAT
64 65 65 64 65 65		RESULT 2 US-09-419-568F-29 ; Sequence 29, Application US/09419568F ; Patent No. 6331613 ; GENERAL IFFORMATION: ; APPLICANT: Dumoutier, Laure ; APPLICANT: Louhed, Jamila
\$ 6 6 6	1 16	; APPLICANT: Rehauld, Jean-Christophe ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac ; TITLE OF INVENTION: (IFFS) The Proteins Encoded, and Uses Thereof ; FILE REPERRNCE: LUD 5543.2 ; CURRENT APPLICATION NUMBER: US/09/419,568F ; CURRENT FILING DATE: 1999-10-18 ; PRIOR APPLICATION NUMBER: US/93/354,243 ; PRIOR FILING DATE: 1999-07-16
\$ 6 6 6	TTTTAGAGAGGCTGATACTTGGTTTTGGTGCTCAGCAAATGTCACCAGGTCTTTC 51	œ H ·· Z :
2 6 8		US-09-419-568F-29 Query Matches Similarity 100.0%; Score 5935; DB 3; Length 5935; Best Local Similarity 100.0%; Pred. No. 0; Matches 5935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
\$ 8 \$ £	5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAGCTAGAAAACGAAGAACTGCTCCTTCCT	TCCACATGCAATCAATCCTTTGTAAATTCTCTTTTTTTTT
6 6 6		Db 61 AFCHAFARAGFATAGGATGATTAAAAATAATTGATTTTAAAAATTTTGAGGCTTATGTTT 120 Qy 121 GCACAAGTAAAATGTCAGAGAATTAGCAAATGTATTATTTTTTAAAAAAT 180 Db 121 GCACAAGTAAAATGTCAGAGAGAATTAGCAAATGTATAGTTTTTTTT
90 A2 B2	461 TAGTETETETETETETETETETETETETETETETETETET	181 CTATGCTTAAAATGTCTATTAGATTGTTCACTACTGACATTTCCAAACTTAACTTGACCT 241 TGGCTATGATTTCAACTTTGTATTTGCATCTACCATACTGTGTGTG
6 G B Q	5581 AGGAGGTTACCTCTACACTACACAAAGCCTATGTAACTTCCATAACCAA 5640	
oy Oy Oy		

8 8 8 8 8 8 8

Š

16.21 GAGTICOMOTICATIOTOGGGAAACTICACTICACTICACTICACTICACTICACTIC	
8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	
481 CCCAGGAGGCANATGCGCTGCCCATCANCACCGGTGCAAGCTTGAACTTCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1561 AGAAACAGATCTGCTGAGTACAGTACTTATGGGGGGGGGG

8 6 6 6 6

	3901 AAGGCAGCAAGCATTGAGAGGGAGATGGAAAGGGAAAAAACAATGTAGAGGTTTGAAA 3960 	3961 GCTACAAATCCTCCACGAGGATTTTTCTTGGAGGAATCTAGAACAAGGGTGGTGGATT 4020 		4081 GGTTGAGAGCGTCACCTTTTTTACCCTGGATAGGAGGAGGAAAGAGGGGTGTTTTGAC 4140	4141 TCCTACCTGGAGTTTTACTAGTTTACGCAATGGAACACACAC	4201 AAGAAAAAAAAAAAAAGGAAACCTGTTGTTTCTCTTGTTTGT	4261 GCACAGGCAGCTGGGCCATGGCCCATGCCTTTAATCCCAGCATTGGCAGGCA	4321 AGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGG 4380 	4381 GCTATACAGAGAAACCCTGTCTCGGGAAAAAAAAAAAAA	4441 AGAACAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGGAGAGGAG	4501 AGGAGAGAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAG	4561 AAGAGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	4621 AGAAAAGAAAAGCAAGCAAGCAACGACAAAGCATGCCAACATGGGACGTATGTG 4680 	4681 GGTCTTTGAGACAAGGCTTTTGAATTGAGGGCTCATCAATAGTTGATCATGGTCAGGTGG 4740 	4741 AGGGCTACCTGTCAGGCCGAGCCCTGCTGGCTTAGCACTTTAACATCTCCAGGTCTCAGTA 4800 4741 AGGGCTACCTGTCAGGCCTGCTGCTGGCTTAGCACTTAACATCTCCAGGTCTCAGTA 4800	4801 TCACTTCCTGCTGCTTAGGACGTTAGGAGTTGAGCAAACCTTTTTTTCCAACCCCACT 4860	4861 AAAATTTAATTTACAAAAGGCAGTGTAATTTGTGGGATACAGTGTGATAATTGATCTATG 4920
8 & 8	& 4	& 8	& &	පි පි	ð 8	රු පු	දු පු	දි දි	P 6	රු පු	S G	S G	දු පු	λ _O q _O	oy ob	දු පු	ò
											<u></u>						
	AACAACAAAAGAGGTGGGTTTGCAAATAGGACAAGTATTTAGAATCACTGGTATTAACAG CTGTCATCTTAATTAAAATATAGTGTCTATTTAGCTGCCTATTTAAGATTAAACACAAGA	2821 CTGTCATCTTAATTAAATATAGGGCCTATTTAGCTGCCTATTTAAGATTAAACACAAGA 2880 2881 GTGGATAACTTCCCAATTTACTGGGCCTGGTTTCCAATAGAGTAAAATATCAGTCATAGA 2940 2881 GTGGATAACTTCCCAATTTACTGGCCTGGTTTCCAATAGAGTAAAATATCAGTCATAGA 2940 2881 GTGGATAACTTCCCAATATAGTCCCTTCGTTTTCAATAGAGTAAAAAATATACTTAAAA 2940	TTAATTATAGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	001 TCTTAGTTATTATTTTTTTTTTCACACCCTGATCAAGCCACTAGTAGCACCTATCTG	CIGGRAGETHINING THE CONTROL CO	GOAACAGATTAGCAGGGCTCCGGCTAGCAACAGAGGGCCCCCCCC	GOTACAGGA IAGCAGGAGGCICAGGCI IAGCAGG CIGGAR I CAGCCITAAGCAGAGGCA TGCTTGATAGCAGAGAAGTGAGGCTCTTCACAAGTGGGTGTGCTTAAGTAATCAGAAAC	181 1GGTICATAGCAGAGAAAGIGAGGCICTICACAAGIGGGGIGGG	AGA AGCTA A A COGNOTION TO CONTRACT AND A A COGNOTION TO THE CONTRACT AND A A COGNOTION TO THE COMMENT AND A A COGNOTION TO THE COG	361 AGTGTTCATGGCTTTGCAGATTTTCAGTGCTCTGCCAGTTTGTTAGTTA	421 CTTGACACCTGGGCTTGCAGATITICAGIGCTCTGCCAGTCTTGTTAGAGGGCTTGTTAC 421 CTTGACACCTGGGCTTGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCCTGTGTA	421 CITGACACCIGGGALTIGGALGITAGCATGCCAAAGGCACACACTICIGGAATGCCIGGGAAGAAGAAGAAGAACTICIGAATAATTAATTACATTAGCTTTGGCAAAGGAAGGAAGGA	481 AAAGGTATITATICATTIACITTIGCCITTGGAAGGTGTGTGTGTGTGTGTGAAAGAACTCC	541 ACAGGAGATGTATTCTGTAGGAAAACTTTTTTTTCCCCTTAAAAGCCTATAAACCACT 601 TTCAGTCAACTTTGACTTTTATACCATGCTGTCACATGAAAGAGTGTTTAGGCCCGCTCT 	601 TTCAGTCAACTTTGACTTTTATACCATGCTGTCACATGAAAGAGTGTTTAGGCCCGCTCT 661 CGTGGCTCTGGGAAAAGCACCAATAGGGGAAAAATGTTATGCCGAAAAATCTGACTGGC		3721 AGGGAAACTGGGTCAGAGCTCCCCAAAGACCACTACAGGTGTTAAGTAGGAACAGTCGAG 3780 3781 GGTGGGTTCATATAATAGAATGGAACAGAGGAAGGAAGATAAGCTACAAAGTTTCATAG 3840

qa	4861 AAAATTTAATTTACAAAAGGCAGTGTAATTTGTGGGATACAGTGTGATAATTGATCTATG 4920		nce 29, Application US/09354243B
& 43	4921 TGTGCATTGTGCAAGGTTCAATAAGGTAGATCAATAGGCCCATCAACAGCTTTATGGGTG 4980		GENERAL INFORMATION: APPLICANT: Dumoutier, Laure APPLICANT: Louhed, Jamila
ය ය	4981 TGAAATGCAAGTAATATAGGTAGATGCCTGTGTGCTCTTAGGTCAGAAAGGCATGATTTT 5040	APPLA ; TITLE ; TITLE ; TITLE	APPLICANT: Remauld, Jean-Christophe TILLE OF INVENTION: 1801ated Nucleic Acid Molecules which Encode T Cell Inducible Fa TILLE OF INVENTION: (TIFE) TILLE OF INVENTION: The Proteins Encoded, and Uses Thereof
රු සි	5041 AAGGICITGGGCAAAICAIAITAIACICAIGITAAAAAIGCAITAIGITGAITAICAAIC 5100 	CURRE CURRE CURRE PRIOR	; FILE REFERENCE: LUD 5543.1 ; CURRENT APPLICATION NUMBER: US/09/354,243B ; CURRENT FILING DATE: 1999-07-16 ; PRIOR APPLICATION NUMBER: US09/178,973
λ G	5101 TITIAGAGAGGCTGATACTIGGTTITGGTGCTCAGCAAGCAAATGTCACCAGCTCTITC 5160 	PRIOF ; NUMBE ; SEQ II ; LENG	R FILING DATE: 1998-10-26 ER OF SEQ ID NOS: 29 D NO 29 GTH::5935
& 4	5161 TAACTAGTACCACTTTAGAAATGCTACCCGTGCTCAAATTGGTTTGTTT	S-0	TYPE: DNA ORGANISM: Homo sapiens FEATURE: -09-354-243B-29
S S	5221 ATAGCTITGAGAGAGGGGGAGATCAAAGGATCGGGGAACTGGACCTGGTGTTTATGTC 5280	Query Best I Matche	Query Match Best Local Similarity 100.0%; Pred. No. 0; Matches 5935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
y G	5281 TCTGAGAAATGCCTCTGAGCGAGAAGCTAGAAAACGAAGAACTGCTCCTTCCT	S G	1 GAATTCAAGTCCACATGCAATCAGAATACTTTGTAAATTCTTCTTCTACAATATC 60
රු අ	5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400 	Хо аа	61 ATCTATATAGTTATAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTT 120
ò a	5401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460 	ò a	121 GCACAAGTAAAATGTCAGAGAATTAGCAAATGTATAGTATTATTTTATTTTAAAAAT 180
ò a	5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520 	SP GS	181 CTATGCTTAAAATGTCTATTAGATTGTTCACTGACATTTCCAAACTTAACTTGACCT 240
oy G	5521 ATATTITATIGCATIGATAAIGCAACAGAAAAGTAIGTATATAAAAAATIGITIGAA 5580 	S Q	241 IGGCTARGATITCAACCTITGTATITGCATCTACCAFAACTGTGTGCTCACTTACCATGC 300
Q,	5581 AGGAGTTACCTCTCATTCCTCTAGAAGAAGCCTATGTAACTTCATTTCCATAACCAA 5640 	S Q	301 TATCCGACGACGACGTGCCCCGGATGTTTTGCCTTTTGCTCTCTCGCTAACAGGCTCTC 360
S G	5641 TACTTTATATATGTAAGTTTTATTATAAAGTATACATTTTATTTTATGTCAGTTTATTA 5700 	S SS	361 CTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAAATCTA 420
S d	5701 ATATGGATTTATTAGAAAATTATCTGATGTTGATATTGAGTATAAAGCAAATAAT 5760 	\$ 9	421 TGAGTITITCCCTTATGGGGACTTTGGCCGCCAGCTGCCTCCTCTCATTGCCCTGTGGG 480
& q	5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 5820 	& 8	481 CCCAGGAGGAAATGGGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAACTTCC 540
è 8	5821 TAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCATCGTCATCA 5880 5821 TAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATCAACAATACCATCATCGTCATCA 5880	ර සි	541 AGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCTGCATCTC 600
& <u>8</u>	881 TTACCCAATCATTCTCATGACTTCATGCTTGACTCATATTATCTGGTAAAGTTTG 5935 	₹	
RESULT US-09-:	243E	<i>≿</i> 8	661 AICTCCGCGGGTCTCACTACCTAIGTTTTCTGTCTCTTTAGAGACTCTTTAAGGACTGGA 720

us-09-751-797-29.rni

Db 3961 GCTACAAATCCTCCACGAGAGATTTTCTTGGAGGAATCTAGAACAAGGGTGGTTGATTA 4021 AGGTGGATCGCAGAAGGACTTGCATTGAATCTGGATTTTTTTT		Oy 4321 AGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGGCCAGG	4441	4501	4561 4561	4621	4681	4741	Db 4801 TCACTICCTGCTTAGCACATTAGCACTTAGCACTTATTTCCAACCCCACTTATTTTCCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCACTTATTTCAACCCCCACTTATTTCAACCCCACTTATTTCAACCCCCACTTATTTCAACCCCACTTATTTCAACCCCCACTTATTTCAACCCACTTATTTCAACCCCCACTTATTTCAACCCCCACTTATTTCAACCCACTAACACTAACACACTAACACACTAACACACTAACACACACTAACACACACACACACACACACACACACACACACACACACA	4861	OY 4921 TGTGCATTGTGCAAGGTTCAATAAGGTAGATCAATAGGCCCATCAACAGCTTTATGGGTG	QY 4981 TGAAATGCAAGTAATATAGGTAGATGCCTGTGTGTCCTTAGGTCAGAAAGGCATGATTTT Db 4981 TGAAATGCAAGTAATATAGGTAGGTGCCTGTGTGTCCTTAGGTCAGAAAGCAAGTAATATAGGTAGATGCCTGTGTCCTTAGGTCAGAAAGCAAGATTTTT	Oy 5041 AAGGTCTTGGGCAAATCATATATACTCATGTTAAAAATGCATTATGTTGATTATCAATCA
	3121 GGAACAGGATAGCAGGAGCTCAGGCTAGCAAGCTCGACTCAAAGCCAGAGGCA 3180		3301 AGAGCTAAACCSTCTCTTCTTGTGTTGTGTAAAAACCGCTTGTTTTTTTG 3360 3361 AGTGTTCATGGGGTTTGCAGATTTTCAGTGGTCTGCCAGTTCTTTGTAAAGAGGGTTTGTTAC 3420 3361 AGTGTTCATGGAGATTTTCAGTGTTTTTGAGTGGTTTTGTTAC 3420		3481 AAAGGTTATTATTCATTTACTTTTGGAAAGGTGAGAGTGTGTGAGAAGAACTC 3540 	3541 ACAGGAGATGTATTCTCTGTAGGAAAACTTTTTTTCCCCTTAAAAGCCTATAATCCACT 3600 	3601 TTCAGTCAACTTTTGACTTTTATACCATGCTGTCACATGAAAGAGTGTTTAGGCCCGCTCT 3660 	3661 CGTGGCTCTGGGAAAAGCACCAATAGGGAAGAATGTTATGCCGAGAAATCTGACTGGC 3720 	3721 AGGGAAACTGGGTCGGAGGTCCCCAAAGACCACTACAGGTGTTAAGTAGGAACAGTCGAG 3780 		3841 GGTCCTAAGTCTTTAAGATACAAAATAGCTGGTTGGCTTCATAACAAAGGAAGTCTGGG 3900	SAAAA 3	402

```
2810
                                                                                                                                                                                                                                                                                                                                                  2390
                                                                                                                                                                                                                                                                                                                                                                                                                             2510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2930
                                                                                                                                                    2090
                                                                                                                                                                                          2150
                                                                                                                                                                                                                                2210
                                                                                                                                                                                                                                                                       2270
                                                                                                                                                                                                                                                                                                            2330
                                                                                                                                                                                                                                                                                                                                                                                        2450
                                                                                                                                                                        472
                                                                                                                                                                                                              532
                                                                                                                                                                                                                                                    592
                                                                                                                                                                                                                                                                                                                                                                                                                                                  891
                                                                                                                                 412
                                                                                                                                                                                                                                                                                          651
                                                                                                                                                                                                                                                                                                                                711
                                                                                                                                                                                                                                                                                                                                                                     771
                                                                                                                                                                                                                                                                                                                                                                                                           831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       951
                                                                                                                                                                                                                                                                                                                               2811 TACCTGCAGGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2391 AGGACTGGTCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                     ACCACTGCGGACATACATCCTACTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CACTTAGGGTTTTCTCTCTTTCAGGCCAGCCTTGCAGATAACAACACACAGACGTCCGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATCGGGGAGAACTGTTCCGAGGGTCAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGCGGGAGCTGGTGGACCCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTGTTCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TACCTGCAGGCTAAGGATACGTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAA
                                                                                                                                                                                                                        CCTGTGGGCCCAGGAGGCAAATGCGCTGCCGGTCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                          GCATCTCTTTCTCCCATACCGCCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                     GCATCTCTTTCTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                                                                                                                          TCAGGACACATATACTGAATTTTATCTACAGAGGGGGGTTTAGAAAGCCACCACGACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAATACTTTCCATCCTGTTGTGCTCTTCTGAACTCATACTCTTTGGCTACTCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CACTTAGGGTTTTCTCTTTCAGGCCAGCCTTGCAGATAACAACACAGACGTCCGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GACATTCTGCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCTTTC
                                                                                                                                           AGGCTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCA
                                                                                                                                                                        CCTGTGGGCCCAGGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                     CAACTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCT
                                                                                                                                                                                                                                                                                                                                                                     AGGACTGGATCTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                           Gaps
                                                       7445
                                                                          487;
                                                        Length
                                                                          Indels
                                                       DB 3;
                                                      Score 4245.2; DB 3;
Pred. No. 0;
0; Mismatches 178;
                                                                                               TACCATGCTATCCGACGAGCATGTTCCCCTGATG
                                                        71.5%;
88.3%;
                                                      Query Match 71.5
Best Local Similarity 88.3
Matches 5039; Conservative
                            musculus
                  TYPE: DNA
ORGANISM: Mus
         7445
                                     US-09-178-973B-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2871 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1132
                                                                                                                                                                                                                                                                                                                                                    2331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1072
                                                                                                                                    353
                                                                                                                                                      2031
                                                                                                                                                                          413
                                                                                                                                                                                             2091
                                                                                                                                                                                                                473
                                                                                                                                                                                                                                   2151
                                                                                                                                                                                                                                                      533
                                                                                                                                                                                                                                                                         2211
                                                                                                                                                                                                                                                                                            593
                                                                                                                                                                                                                                                                                                              2271
                                                                                                                                                                                                                                                                                                                                 652
                                                                                                                                                                                                                                                                                                                                                                        712
                                                                                                                                                                                                                                                                                                                                                                                                             772
                                                                                                                                                                                                                                                                                                                                                                                                                                                   832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1192
SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                    8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                            8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      જ
                                                                                                                                                                                                                                                                                                         д
                                                                                                                                                                                                                                                                                                                                8 8
                                                                                                                                                                                                                                                                                                                                                                장염
                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                        윤
                                                                                               8 8
                                                                                                                             ઠે
                                                                                                                                                g
                                                                                                                                                                      8 8 8
                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 8, Application US/09178973B

Sequence 8, Application US/09178973B

Patent No. 6274710

GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible 1
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                  5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5880
                                                                                                                          5340
                                                                                                                                                                5400
                                                                                                                                                                                                      5460
                                                                                                                                                                                                                                                                                                     5580
                                                                                                                                                                                                                                                                                                                        5640
                                                                                                                                                                                                                                                                                                                                                                                 5700
                                                                                                                                                                                                                                                                                                                                                                                                    5760
                                                                                                                                                                                                                                                                                                                                                                                                                      5760
                                                                                                                                                                                                                                                                                                                                                                                                                                          5820
           5160
                                                                                                                                                                                   5400
                                                                                                                                                                                                                         5460
                                                                                                                                                                                                                                                                                                                                 TACTITIATATATGTAAGTTTATTATAAGTATACATTTTATTTATGTCAGTTTATTA 5700
                                                                                                                                                                                                                                                                                             TACTITATATATGITAAGTITTATTATAAGTATACATTITATTATGICAGTITATTA
                                                                                                                                                                                                                                                                                                                                                                                                  TABATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCATCGTCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                          GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                       TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                         AGGAGGTTACCTCTCATTCCTCTAGAAGAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTTAATAAACACATGAATATCA
                    TAACTACTACCACTTTAGAAAATGCTACCGGGCTCAAATTGGTTTGTATTCTTATTTTC
                                                                                      ATAGCTTGGAGAGAGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTTTATGTC
                                                                                                 ATAGCTTGGAGAGCGGAGAGATCAAAGCGATCGGGAACTGGACCTGCTGTTATGTC
                                                                                                                           TTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                       GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                          TAGTGTCAAGGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                    ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
           TAACTAGTACCACTTTAGAAAATGCTACCCGTGCTCAAATTGGTTTGTATTTCTTATTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 4
US-09-178-973B-8
                                                                                                                                                                                                                                                                                                                                                               5641
                                                5161
                                                                                                                                                                5341
                                                                                                                                                                                                                                                                                                      5521
                                                                                                                                                                                                                                                                                                                                            5581
                                                                                                                                                                                                                                                                                                                                                                                                     5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5881
                             5101
                                                                                     5221
                                                                                                        5221
                                                                                                                                              5281
                                                                                                                                                                                     5341
                                                                                                                                                                                                                         5401
                                                                                                                                                                                                                                              5461
                                                                                                                                                                                                                                                                 5461
                                                                                                                                                                                                                                                                                                                         5581
                                                                                                                                                                                                                                                                                                                                                                                  5641
                                                                                                                                                                                                                                                                                                                                                                                                                                          5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                              5761
          5101
                                                                   5161
                                                                                                                           5281
                                                                                                                                                                                                        5401
                                                                                                                                                                                                                                                                                    5521
                                                                                                                                                                                                                                                                                                                                                                                                                        5701
                                             8 6 8 6 8 6 8 6 8 6 8 6
                                                                                                                                                                                                                                                                                                                   6 B 6 B 6 B 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     쉱
                        g
           ઠ
```

8 6

8 4 8 4 8

151 CCTGTGGGGCCCAGGAGCCAACACCCGGTGCAACCTTGAGGTGTC 2210 233 CAACTTCCAGCAGCCGTACATCGCTCACCGGTGCCAAGGAGGTACAGCT 2211	772 TGAGGACACATATACTGAATTTTATCTACAGGGGGGGGGG	CACTTAGGGTTTTCTCTTTCAGGCCAGCCTTGCAGATAACAACACAGACGTCCGGCTC [1132 TACCTGCAGGCTAAGGATCAGTGCTGATGAAGCAGGTGCTCAACTTCACCCTGGAA 1191	1312 CCTCTCTCTTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCCTCTCTCT	
	\$ 8 \$ 8 \$ 8	8 4 8 4 8	6 6 6 6 6	8 8 8 8 8 8	8683
	OY 5812 TGATATCTGTCTTGTCTTGTCTTCTCCTTTAATATCAACATACCATCA 5871 Db 7125 TGGATATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCA 5871 QY 5872 TCGTCATCATCATTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCA 7184 QY 5872 TCGTCATCATTACCCAATCATTCTTCATGCTTGACTCATATTATCTGGTAAAG 5931 Db 7185 TCGTCATCATTACCCAATCATTCTCATGATTGACCCATTATATCTGTTAAA 7244 QY 5932 TTTG 5935 Db 7245 GTTG 7248	RESULT 5 US-09-419-568F-8 ; Sequence 8, Application US/09419568F ; Patent No. 6331613 ; Patent No. 6331613 ; APPLICANT: Dumoutier, Laure ; APPLICANT: Louhed, Jamila ; APPLICANT: Reanald, Joan-Christophe ; TITLE OF INVENTION: 1Solated Nucleic Acid Molecules which Encode T Cell Inducible Fac ; TITLE OF INVENTION: (TIF9) The Proteins Encoded, and Uses Thereof ; TITLE OP INVENTION: (TIF9) The Proteins Encoded, and Uses Thereof ; TITLE OP INVENTION: (TIF9) The Proteins Encoded, and Uses Thereof	CO CO	Ouery Match Best Local Similarity 88.3%; Score 4245.2; DB 3; Length 7445; Best Local Similarity 88.3%; Pred. No. 0; Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20; QY 293 TACCATGCTATCCGACGAGCATGTTTTTTTTTTTTTTTT	Qy 413 GAAATCTATGACTTATCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCATTGC 472 Db 2091 GAAATCTATGAGTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCATTGC 2150 Qy 473 CCTGTGGGCCCAGCAGAATGCGCTGCCCATCAACACCCGGTGCCAGCTTCAGTGTC 532 CTGTTGGGCCCAGGAGCCAATGCGCTGCCCATCAACACCCCGGTGCCAGCTTGAGGTGTC 532

CCCCACTAAAATTTACTACACACTTAGGAGTTGAGCAAACCTTTTTTTCCAA 6165 4853	CTTATTTTCATAGCTTGGAGGGGGGGGGGGGGGGGGGGG	6826 TCATTGACAATATTTATTGATCACTGATGATACAACAGAAAATAATGTACTTTTAAAAA 6885 5572 TTGTTTGAAAGGAGGTTACCTCATTCCTTTGAAAAAAGCTTATGTAACTTTTC 5631 6886 TTGTTTGAAAGGAGGTTACCTCCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTC 5631 6886 TTGTTTGAAAGGAGGTTACCTCCTTTGAAAAAAAAAAGCTTATGTAACTTTTATTTTCTTTTCTTTTTTTT
8 8 8 8 8 8 8 8 8 8 8 8 8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 6 8 6 8 6 8 6 8 6 8
	133 GTTTTGACGTCCCCCCCTTTTTACCCCTCGAATGGAGGAGGAAGGA	1994

111
6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8
1916 MTGAGGTTANGCTTAGGTTTCCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTC

8 8 8 8 8 8 8 8 8 8 8 8 8 8

1546

```
TCACAAGAGTGAGGAGGCCTCAGCACCACCATCATAGGCCACTTGAAATAGGTCAC 1426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGCGATATCCACTGAGTCCAAGTACTTGTGGGAGAGAATCCACTGAGTACAAGTACT 1666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             daaaregarccarreagrcraagrrerreaggegegegegegegegegegegagagaarraga 3476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rrecccrierreariercareceaeaeccaeaaariceeaeeerereaerrieareceeere 3588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AACATTTGAAACTATGAAAAAAGTTTGAGTGGAGTGGGCCCAGTAAAAGGCCCTAGGAC 3648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACTGTTGAAATCTAGGTCATTGTGGGCAAAATTACTAAGAGCTTTAATTCCAGGTGAATT 3948
                                                                                                                                                                                                        rccccracccraadcraecaegaagaagrercrigecagcagrerrarcaggagrea 3244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGAGAAAGTGGGAAATGGGAAGGCTTAAAGTCG-----GTGGTGGGTCGGTCGGAGACTG 3528
                                                                                                                                                                                                                                                                                                                                                                                                   CGTTCTTGCTACTGGAAACTTCAGTAGGATTCCCCCAAAGACGAGGACAGCTCTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TAAGGGAGGACCTGGATTTCAGTGTCCTAGAGAACGAAATAGCTCAGAAATCTAGGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AACGTGAAATCTAGGTCACAGGGGCAAAAATGACTGAACGCCTCTATTCCAGGTGAACG
                                                                                                                                                                                                                                               AAAGGCTTTGGCTTCAATTGAGTAATACTTTGAGTTTGTATTAGTTAAGCTTTATTTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           -----tridegarcaragagrarriectrirescrindacreaercacarcrigagrina
                                                                                                                                                                                                                                                                                                                          TTATCCATGGAAAGAAATCAACTCAAATTCTGTAGGATGAGAAGATGTTGGGAACGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAAGGCAACTCAGGTTGCGTAAGATGAGAAAGGTGTTGGGAAAAAAATGTTAGATG--TG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CAATGTTGGGGGTGTGAAAGGTCACTCCTTTTCCATGTGATGGAGAGTTAAGAAAAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGTGTGTGAGTTTTGATGTCTTCAGACACCCCAACTATGGCAGACTGTGGGAAGACCTGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITAGGGA-AGGCGCGCTTTTCACACGAGAAACTTTATGCTCATCTTGTGCTACACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u> dracuciracearegearericaraaagrurcacaaaaarunaaaraaa</u>
                                                                                                                                 geccaectracecerectrecerectrecaeagagacecerraceceaaerererer
                                                                                                                                                                                                                                                                                                                                                             TAGTGGTGAATGGGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTGTCTTCGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTGGGGGAAGGAATGGCACAGAGCAAAAGTTGAAGGGAAAGAGGAAAGAGAGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GTCACGTGCCTCAGATATACTGAGGTATTGGGCTCCCACCGGATAAGATTCTGTTAGGTGA
                                                                                              CCCACCTTTGATGAGGTTAAGCTCAGGTTTCGTTTCT---------
                                                                                                                                                                       1367
                                                                                                                                                                                                            3186
                                                                                                                                                                                                                                               1427
                                                                                                                                                                                                                                                                                                                          1487
                                                                                                                                                                                                                                                                                                                                                               3299
                                                                                                                                                                                                                                                                                                                                                                                                   1547
                                                                                                                                                                                                                                                                                                                                                                                                                                          3359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3417
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3477
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1727
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1787
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3709
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1945
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3829
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3889
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3949
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4069
                                                                                                                                                                                                                                                                                     3245
                     1247
                       8 8
                                                                                            8 8
                                                                                                                                                                 8 6
                                                                                                                                                                                                                                  8 6
                                                                                                                                                                                                                                                                                                                                                  g &
                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 S 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유정
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원 첫
전
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                                                                                                                                               2295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             812
                                                                                                                                                                                                                                                                                                                                                                                                                    ----CTTCCATTTTGGCCTTTATGATGATGATGATGATTTTTCCCAAAGAGCGGCCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGTARTCCATCTGATGATTTTTTTTTTCTTTTTGCCTCTGTGCATTGTTCTAAACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTCTTCCAGGCTAGCTTGGCTGATAACAACACAGACGTTCGTCTCATTGGGGAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGTTCCGAGGAGTCAGTGTAAGTCCTCACTGTGATGAGCAGGCC-----TA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGTACTTGGGGTGGTGATGATTAGGTCTTATCCTTATGACCTTTTCTGTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TIGAAGAAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGC
                                                                                                                                                                                                                      CTCCTTCCCCAGTCACAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA
                                                                                                                                                                                                                                                                 crregracadeadeaderececeáreaderecearecadeareaderreadea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AATCCTGCTCTTTCTCGCTTGGATCTTGGAATCCAAATAGTTCTTAAACTTTTCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ----CTGAGACCCACTGCGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  recacacarcea de la contra dela contra de la contra dela contra de la contra del contra de la contra de la contra del la contra de la contra del contra del la contra del la
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C-TCTCTTTCAGGCCAGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGTTCCACGGAGTCAGTGTAAGCTACAGTTGTGACGAACGGGGCCGTGTGCCGTCCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TIGICTACCIGCAGGCTAAGGATCAGTGCTACTGATGAAGCAGGTGCTCAAGTTCACCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cerrecacerecagargagegecereciarerargaageagegegegerecace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGAAGACATTCTGCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGC
                                                                                                                                                                                                                                                                                                                                              GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GCACTTGCAAACTCTTTAGGGGCGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rrrrrrcadadercrirredaarcrescrirrrrrrrrrrrrandaaerrrerre----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGAAAGCCACCCACGACTGCAATACTTTCC---ATCCTGTTGTGCTCTCTTCTGAACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATACATCTCTACTACAGGCTTTTCTTCCCATCTCCTTGTCACCCCAGGCACTTAGGGTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCACATGTCTATGTATAATTTTTTTTTTTTTGCTCAATGTCCAGACCCTTAGTCTTTT
                                                                                                                                                                                          CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCAPTITCCTATCTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCGTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTGCGGGAGCTGGTGGACCCTCTGGGATAG----TCTGACGTATGACCCTGCTGCTTC
                                                                                                                Length 8888
                                                                                                              .8; DB 3;
1.3e-142;
                                                                                                                Score 651.8; DB 3;
Pred. No. 1.3e-142;
0; Mismatches 2127;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TACTCTCTTGGCTACTC-------
                                                                                                              11.0%;
53.3%;
                                                                                                                                                   Conservative
                                                                                                                                 Best Local Similarity
Matches 3063; Conserv
                                     ; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17185
SEQ ID NO 17185
LENGTH: 8888
                                                                                                                                                                                                                                                                   416
                                                                                                                                                                                                                                                                                                        2176
                                                                                                                                                                                                                                                                                                                                                                               2236
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             753
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3006
                                                                                                                                                                                                                                                                                                                                              476
                                                                                                                                                                                                                                                                                                                                                                                                                                                            2296
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2826
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2886
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1187
                                                                                                                                                                                          356
                                                                                                                                                                                                                                                                                                                                                                                                                      536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      965
                                                                                                                  Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 & 8 & 8
8 & 6 & 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 6
                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                             ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                  음 성 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         දු පු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6 8 6
                                                                                                                                                                                        8
                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                            ò
```

1905

2004

-----AC

2124

S189 GATANTICARGAGCTICARTITIANATORAGCAGAGCAGCACCTICATANAGACAT 5218 3418 INCCTTGAGAGCTICARTITIANATORAGCAGAGCACCACCTICATANAGCAGCTICAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA
6 2 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6
1334 GTAGGGGAGACATGCTTTTCTTTCTTTCTTCTTCTTCTTCTCTCTTTTTTTT

us-09-751-797-29.rni

Qy 5554 AGTATGTACTTTAAAAAATTGTTTGA Db 7071 AATTTATTTTTAAATAATTGTCTTTTCCATA Qy 5605 -GAAGAAAGCCTATGTAACTTCCAT Db 7131 GGAAAAACCCTAATAGCTTCATGTTTCCAT Qy 5662 TTTATTATTATTATTATAAGCTCATTTTCCAT Db 7191 TTTATTATTATTATAAGACTGCATTTTTCCAT Qy 5716 TAGAAAAATTATCGATGTTGCTACTTTGAGTGT Qy 5773 AACTATAGAAACAAGATTTTTGAGTGTT Qy 5773 AACTATAGAAACAAGATTTTTGAGCTTT Qy 5829 CTGTCTTGTAATTTTTCCCCTTTAATTTGACCTC Qy 5829 CTGTCTTGTAATTTTTCCCCTTTAATATAGACCTC Qy 5829 CTGTCTTGTAATTTTTCTCCTTTAATGTCATC Qy 5829 CTGTCTTGTAATTTTTTCTCCTTTAATGTCATC Qy 5889 TCGTTTTGTGATTTTTCTCCTTTAATGTCATC Qy 5889 TCGTTTTGTGATTTTTTTTTTTTTTTAATGTCATC Qy 5889 TCGTTTTGTGATTTTTTTTTTTTTTTTAATGTCATC Qy 5889 TCGTTTTTGTGATTTTTTTTTTTTTTAATATTAATTAAAAAA	RESULT 8 US-09-419-568F-25 US-09-419-568F-25 Sequence 25, Application US/09419568F Patent No. 6311613 SEGUERAL Louhed, Jamila APPLICANT: Louhed, Jamila PAPLICANT: Louhed, Jamila TITLE OF INVENTION: Isolated Nucleic Acid Mo TITLE OF INVENTION: ITEB) The Proteins Enc TITLE OF INVENTION: US012-12 CURRENT FILING DATE: 1999-10-18 PRIOR PILING DATE: 1999-10-18 PRIOR PILING DATE: 1999-10-18 PRIOR FILING DATE: 1999-10-18 PRIOR FILING DATE: 1999-10-26 NUMBER OF SEQ ID NOS: 29 SEQ ID NO 25 LENGTH: 4797 TYPE: DAA ONGANISM: Homo sapiens PRATURE: US-09-419-568F-25 QUEST MATCH BACTHCTCTCTCTCTGTTAACTTTGACTTGTCGTTATGGGGACTTTGGG QY 416 ATCTATGAGGTATTTTCCTTATGGGGACTTTGGG QY 416 ATCTATGAGGTATTTCCTTATGGGGACTTTGGG QY 416 ATCTATGAGGTACTTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTTCCTTATGGGGACTTTGGC QY 416 ATCTATGAGGTATTTTCCTTATGGGGACTTATGGCCCTACAGGTGCCCATCAAGGTGGCCCAAGGAGGAGCAAGCGCCCAAGGTGGCCCAACCCTGGCCCATCAAGGGGACCAACCGCCCACCATCAAGGGGACCAACCCCACCATCAAGGGGACCCAACCCCAAGTGCCCAACCCCAAGTGCCCCAACCCCAAGTGCCCCAACCCCAAGTGCCCCAACCCCAAGTGCCCCAACCCCAAGTGCCCCAACCCCAACCCCAACCCCAACCCCAACCCCAACCCC
6202 AACAATAGCTGATGAGCTAAAAAAGTCCATGCATAAATCTCATACTGTTTTAAGAAAGTT 6261 4485 GAGGAGAGAGAGAGAGAGAGAAAAGAAAAGAAAAGAA	TGATAATTGATCTATGTGTGCATTGTGCAAGGTTCAATAAGGTAGATCAATAGGCCCATC
8 4 8 4 8 4 8 6 8 6 8 6 8	B & B & B & B & B & B & B & B & B & B &

```
Molecules which Encode T Cell Inducible Facinceded, and Uses Thereof
AAAAGGGGTTACCTCTCATTCCTCTA-- 5604
                                          NTAACCAATACTTTATATATGTAAGTTTA 5661
                                                                                       ATGTCAGTTTATTAATATCGATTTATTA 5715
                                                                                                                                    TTAATAACACATGAATATCATAAATCTT 5828
| |||||||||| || ||||| ||| ||||
| ICAATAACACTTGGATATCCTAAGTCTT 7370
                                                                                                                                                                                                                              ACABTACCATCATCATCATTACCCAA 5888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GCCGCCAGCTGCTTCTCATTGCCCT 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AACACCCGGTGCAAGCTTGAGGTGTCCAA 535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTATGCTGGCCAAGGAGGTACAGCTGCA 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 3; Length 4797;
.6e-142;
es 1285; Indels 152; Gaps
                                                                                                                                                                                                                                                                            ATCTGGTAAAGTT 5933
                                                                                                                                                                                                                                                                                                  AAATGAGGTAGCT 7472
```

셤

2433 2490 2550 dagahacganigagginthantccinacagaartigcaraaactactccgcrctrtccac 1690 Tritatagcatatroaaggreargaccrecatarccagaggaargrecaaaaggreaagg 2286 CGCGGCTTTTCACACAGAAACTTTATGCTCATCTTTGTGCTACACTCCCACCTTTGAT 1917 CIGGATITICAGIGICCIAGAGAACGAAATAGCICAGAGAAICTAAGGICAACGIGAAAICT 2076 TAGGTCATTGTGGGCAAAATTACTAAGAGCTTTAATTCCAGGTGAATTGTACTGTACCTC 1870 AGATATACTGAGGTATTGGGCTCCCACCGGATAAGATTCTGTTAGTGA-GTCTGCTTTTA 2195 CATGGGTGTGGGGGTTCATAAAGTTTCAGCACAACATTAAGATAAGTTATGCTTGTTATTG 1930 1991 ACACAGTGAAAAAGGTAGGACTGATAACTGTCAATGCTAAGTCATGCAATAGGAGAGACA 2050 GGGATITICITICCIGCTICCCAGICTCTTCT--ACTITIGIAACATITICTTIGACTIGT 2373 2051 AATGİNGTİLİTCITİTÇÇİTTÇTTİÇİTCÇATCACİLİĞİGATTİTİCACİLİĞATİCTC 2110 TGTGAAAGGTCACTCTTTTCCATGTGATGGAGGTTAAGAAAATCAGTGTGTGAGTT 1798 rercareseaseceacaaarcesasecersteaacricarecescreaacarridaaac 1510 TATGAAAAAAGTTTGAGTGGAGTGGGCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGG 1570 -----ACCGTTCTTGCTAC 1956 GATTAAGTATTTGGGAAA - GCCAATTCCCACCGACCTACATAATCCGAAGAAGCATGCA 2667 TTTTGCAGCACATCAGTGGTGACCAGAACATCCAGAAGAAGAATGTCAGAAGGCTGAAGG AGACAGTGAAAAGGTACTATTGGCAAGCCAATACTAAGCCATTCAGTAGGAGACGTG AGCATCCCTGATTCCCCAGCTCTGCAC-TTGCCTAGTGGCCACGTGAATTACTTTAGCCT 2434 TCAATCTGTGTCTAAATTT---GTAAGTCACAATTCTGGAGCTAGCAGAAAGCTTAGCTC TIGAGICTAAGITIGAGGGGAGGGGATGGATGGAGAAATTAGAAGAGAAAGTGGG AATGGCACAGAGCAAAAGTTGAAGGGAAAAGAGGAGATGGAGAGGCCTCAATGTTGGGGG CTACTGTCTGGTCCATTACTCACTTAGCTGCACCTGCATCTAGGTCTATAGATCTT 2491 AGCCAGICICATGAGCACTIGCICGGAGGAIGGCTIGIGACAGAGICAAIGCIAGAAGAC GTCTAGTCACATAACCTCAGATTCTGGGGATGGTCAGTGGCCAGAGATAGGGCTAGTTCCT 2077 AGGTCACAGGGGCAAAAAGACTGAACGCCTCTATTCCAGGTGAACGGTCACGTGCCTC GATGTCAGTTTCCAAATCTTGCAAATTGTAGAATTCTAGAACTGGTTGGGATCTTAGCTT CTGAGTCCAAGTACTTGTTGGGAGAGAAATCCACTGAGTACAAGTACTTGTGGGGGAAGG TGATGTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCATTTAGGGA-AGG

셤 8 8

ò

8 6 8 6

```
1082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1138
                                                                                                                                                                                                                                                                          29;
                                                                                                                                                                                                                                                                                                              415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCAGCCTTGCAGATAACAACACAGACGTCCGGCTCATCGGGGAGAAACTGTTCCGAGGA 1035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1339 AGGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTC 1198
                                                                                                                                                                                                                                                                                                                                                                                                                                  148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         808
                                                                                                                                                                                                                                                                                                                                                                                         475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCTGCA 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 596 TCTCTTTCTCTCCATACCGCCTTGCCATTTCTCTGAAGCACTTGCAAACTCTTTAGGGGC 655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAricciecircrircresaricracriresariccaariacrircriaaacrirircrica 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITGGCCTTTATGATACATATGATGATTTTTCCCAAAGAGCGGCCATTCAGTAATCCAT 508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 569 AATTOTGCTTTTAGTCTTTATGATGTTGCTCTGGGGAGACGGGATGGGGGCACATGTCTAT 628
                                                                                                                                                                                                                                                                                                                                                   88
                                                                                                                                                                                                                                                                                                                                                                                                                  ATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTTGGCCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTTGGTACAGGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      creardaritrrrrrrrrardecrercierdearrerrandadercardeadere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGGGCCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCT-------CTTTAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCGTTT--AGAAAGCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCCACGACTGCAATACTTTCCATCCTGTTGTGCTCTTCTGAACTCATACTCTTGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACTOTITIAAGGACTGGATCTTTTTTTTTTTTTTTTTTTTAAGGTCTCAGGACCATTTCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rriricagadacicrrigggaaiciggciriririrrrrcrigaacrrcrrccriccar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGAGACCCACTGCGGACATACATCTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGGCACTTAGGGTTTTC-TCTCTTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTAGCTTGGCTGATAACAACACAGACGTTCGTCTCATTGGGGAAAACTGTTCCACGGA
                                                                                                                                                                                                                                                                                                              CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                             GTCAGTGTAAGTCCTCACTGTGATGAGCAGGGC------TAGCTGCGGGAGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Grcagreraagerrereacagaceaacaeeeeccoreceareceareeeer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGTGGACCCTCTGGGATAG----TCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GETGETGATGATTGTTTAGGTCTTATCCCTTATGACCCTTTCTGTTTCCCTTCCACCTGC
                                                                                                                                                                                                                                                                          152;
                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                   Score 650; DB 3; L
Pred. No. 2.6e-142;
O; Mismatches 1285;
CURRENT APPLICATION NUMBER: US/09/354,243B
CURRENT FILING DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/178,973
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
LENGTH: 4797
                                                                                                                                                                                                                                   Query Match
Best Local Similarity 56.5%;
Matches 1863; Conservative
                                                                                                                                                          sapiens
                                                                                                                                                          ORGANISM: Homo
                                                                                                                                                                                                US-09-354-243B-25
                                                                                                                                                                                                                                                                                                                356
                                                                                                                                                                                                                                                                                                                                                                                           416
                                                                                                                                                                                                                                                                                                                                                                                                                                  89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1083
                                                                                                                                                                                                                                                                                                                                                     29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              689
                                                                                                                                        TYPE: DNA
                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                         Š
                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    E)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 25, Application US/09354243B
Patent No. 6359117
GRNERAL INFORMATION:
GRNERAL INFORMATION:
GRNERAL INFORMATION:
GRNERAL INFORMATION:
APPLICANT: Louned, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible FITTLE OF INVENTION: (TIPS)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cirrigraciririaaarricreaagcccagircrcrirgraragaacrarrarcragacarg 3170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GAGGGCTGAATGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAT 3230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATACAGGTTCAAATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTC 2694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AATTTTCAGTAACAAGCTTAACCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAA 3050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCGTTTCTTCCTGAGCATCATTTAATGAGTGTGACTGTTTCTTCCTTTGATAATTGAAGG 3110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGT--TAGAGGGTTTGTTACCTTGACACC 3429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TATTCATTTACT-----TTGTCTTTGGAAAGGTGAAAGTGTGTGTGAGAAAGAACTCA 3541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AATTATCAGTAAGATATCTACCCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313
                                                                                                         TGCATTGCTTTTGAAACTTGGAAGAAAAACTCAGAACAATGAGAAAAGAAGGACTTGC
                                                                                                                                                                                              ATATAGGGCTAATTTCTGGAGTAATAAACACTTAT-----TTTGAATTATCATAATA
                                                                                                                                                                                                                                                                          rcr---arcadararrdarraradrrraadadcaadacadad-cccdarcrcrrrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCTTCACACCCTGATCAAGCCACTAGTAAGCACCTATCTGCTGCGAGCTATTATATGACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGGCTCTTCACAAGTGGGTGTGCTTAAGTAATCAGAAACAGGAAGGCTCTGGTTGATGG
    TTGAAAACTAGAAA----GCTGGGCACAAACTTACTAGAGATGATTTTTGAGCTCATTAA
                                TITAAAAACAGAAAAATGCCTATGGGCAAATTTATTTGAAGTCATTTTTGAAGTCATTATATAA
                                                                                                                                                                                                                                     TGTCTATTTAGCTGCCTATTTAAGATTAAACACAAGAGTGGATAACTTCCCAATTTACTG
                                                                                                                                                                                                                                                                                                              TGAGTTGGAAACC - - CTTTCCTTACTTTTACCTTCATTTCTTAGTTATTATTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                  rgaatrigeraagerrrrrrrrrrerrecterecearcaagecerrecarreragrrrerr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTACAGCAAACATTGCTGTGTGCCCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCAGGCTAGCAAGTCTGGACTCAACCTAAAGCCAGAGGCATGGTTGATAGCAGAGAAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCTCTCCTTCTTGTGTGTAGGCTGATAAACACGCTTGTT--TTCTTTTGAGTGTTCATGG
                                                                               ACTGATGCTCTGAAATGTGATCAAATCAACCCAGAATAACAACAAAAGAGCTGGATTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cranagraanganaccancandredecerarinegreaaaagaaca--acaangaagee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGGCTTGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCCTGTGTAAAAGGTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -09-354-243B-25
                                        2407
                                                                             2724
                                                                                                                   2467
                                                                                                                                                        2784
                                                                                                                                                                                              2527
                                                                                                                                                                                                                                                                          2579
                                                                                                                                                                                                                                                                                                                                                       2635
                                                                                                                                                                                                                                                                                                                                                                                                                                  2692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3490
                                                                                                                                                                                                                                   2844
                                                                                                                                                                                                                                                                                                                                                                                           2964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3231
```

Q

6 B 6

g ò 8 ò g 8 8 ò 쉽

8 8 ₹ g

Š

a

ò

엄

Š

Db 928 TACTTTATATATGATATATTATTATATATATATATATATA	Ouery Match Best Local Similarity 99.8%; Pred. No. 2e-131; Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0; \$221 ATAGCTTGGAGAGGCGAGAGATCAAGCGATCGGGGAACTGGTCTTTATGT 5280 Cy 5221 TTGGAAAAGCCGAGAGATCAAGCGAACGGGGAACTGGACTGTTTATGT 5280 Db 5281 TCTGAGAAATGCTTGCGTTCTGAGAAAACGAAGAACTGGTCTTTATGT 567 Cy 5281 TCTGAGAAATGCTTGCGTTCTGAGAAAAAAAAAAAAAAA
Oy 3314 TCTCTCTTCTTCTGTGTGGCTGATAACACGCTTGTTTTCTTTGAGGGTTCATCG 3371 Db 3051 GCGTTCTTCCTGGAGCTGAGCTGTTTTTTCTTTGATGGTGTTCATCG 3110 Qy 3372 CTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGTTACTTGAGAGCTTTACTTGAGAGCT 3129 Db 3111 CTTTGTAGTTTTAATTGTGAGAGCCAGTTCTTTATTACTGAGAGCTTTT 3130 Qy 3430 TGGCTTGGAGTTTTAATTGTGAGAGCCAGTTCTTGTTATTACTGAGAGCTTTT 3130 Qy 3430 TGGCTTGGAGTTTAGATGTGAGAGCCAGTTCTTTATTACTGTAGAGAGTTAT 3130 Qy 3430 TATTCATTTAATTGTGAGAGCCAAAGCCAGAGCTGTGTGTG	Detay Match 10.1%; Score 602.4; DB 3; Length 1111; Best Local Smilarity 9.8%; Pred. No. 2e-131; Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0; Matches 603; Conservative 0; Mismatches 1; Indels 0; Gaps 0; S221 ATAGCTTGGAGAGAGCGGAGAGATCAAGCGAACTGGACTGCTTTATGTC 520 Db S281 TCTGAGAAATGCTTGGCGTCTGAGCGAACTGGAACTGCACTGCTTTATGTC 567 Or ContagaaatGCTTGGGTCTGAGGGAAAGAGAAGAGAACTGCTTCTTCT 627 Db S581 GCCTTCTAAAAAGAACAATAAGAAAGAAGAAAGAAAGAAA

ò

```
Sequence 7, Application US/09178973B; Sequence 7, Application US/09178973B; Sequence 7, Application US/09178973B; Sequence 7, Application G274710.; GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
TITLE OF INVENTION: Totalated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (TIFs)
TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof
FILE REPERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
SEQ ID NO 7
LENGTH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5700
                                                                                                      5820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5580
                                                                                                                     569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               809
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      869
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          630 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        810 ATTTTTTTTTGTCACTGATGATACAACAGAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5581 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGAGGITTACCTCTCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAAGCTTGGAGAGAGAGGAGAATCAAGGGGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCAAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                       ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACACATGAATATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5221 ATAGCTTGGAGAGAGAGAGAGTCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     / Match 9.4%; Score 555.2; DB 3;
Local Similarity 96.0%; Pred. No. 2.5e-120;
nes 580; Conservative 0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Mus musculus
                                                                                                                                                                                                TAAA 1111
                                                                                                                                                                     TAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-178-973B-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5521
                   928
                                                5701
                                                                            988
                                                                                                           5761
                                                                                                                                                                     5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ⋧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                      8 6 8
                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ብ ጵ
                                      8
                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                          Sequence 9, Application US/09354243B

Facent No. 6359117

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

APPLICANT: Dumoutier, Laure

TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fa

TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof

TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5543.1

CURRENT APPLICATION NUMBER: US/09/354,243B

CURRENT FILING DATE: 1999-07-16

PRIOR FILING DATE: 1999-07-16

PRIOR FILING DATE: 1998-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5460
                                                                                                           ő
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATATGGATTTATTTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5221 ATAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         688 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     808 ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGAGGITACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 968 AGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA
   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10.1%; Score 602.4; DB 3; Length 99.8%; Pred. No. 2e-131; ive 0; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 99.8
Matches 603; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                      5821 TAAA 5824
                                                                                                                                                                                                  TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; FEATURE:
US-09-354-243B-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            748
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5581
                                                                                                                                                                                                  1108
                                                5701
                                                                               988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                      g
                                                                                                           8 6
                                                                                                                                                                     8
                                                                                                                                                                                             ద
```

Qy 5701 ATATGATTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAT 5701 ATATGATTATTTATTATTTATTATTATTATTATTATTGATATTT-AGTATAAGGCAAATAT 5760 Db 990 ATATAGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACAATGATATC 5820 Qy 5761 ATTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATC 5820 Db 1049 ATTATGACAATAACTATGGAAACAAGAATATCTTAGGCTTTAATAAACACATGGATATCA 1108 Qy 5821 TAAA 5824 Db 1109 TAAA 1112	RESULT 15 US-09-154-243B-7 i Sequence 7, Application US/09354243B sequence 7, Application US/09354243B sequence 7, Application US/09354243B sequence 7, Application US/09354243B sequence 7, Application US/09354243B definition 160 INVENTION: Louncutier, Dumoutier, Dumoutier, Dumoutier, Dumoutier, Dumoutier, Dumoutier, TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode 7 TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof TITLE OF INVENTION: The Proteins Encoded, and Uses Thereof FILE REFERENCE: LUD 5543, 18/09/354, 243B CURRENT FILING DATE: 1998-10-26 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 SEQ ID NO 7 LENGTH: 1119 TYPE: DNA SEQUENCE: PRATURE: PRATURE: US PRATURE: US-09-354-243B-7	Ouery Match 9.4%; Score 555.2; DB 3; Length 1119; Best Local Similarity 96.0%; Pred. No. 2.5e-120; Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;	Qy 5221 ATAGCTTGAGAGAGAGAGATCAAAGGATGCGGGAACTGGACCTGCTGTTTATGTC 5280 bb 510 AAAGCTTGGAGAGAGAGAGAGAATCAAGGCGATTGGGGAACTGGAACTGGTTTATGTC 569	Qy 5281 TCTGAGAAATGCTTGAGCGAGGAGAAGCTAGAAAAAGAAAAGGAAGAACTGCTTCCT 5340	Qy 5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400	Qy 5401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAA 5460	Oy 5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520	Qy 5521 ATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTTAAAAAATTGTA 5580 	Qy 5581 AGGAGGTPACCTCTACATTCCTGAAAAAAAAGCCTATGTAACTTCATTTCCATAACCAA 5640 bb	930 TATTITATATATATATATATATATATAAAGTATATATATA
	RESULT 14 US-09-419-568F-7 Sequence 7, Application US/09419568F Patent No. 6331613 GENERAL INFORMATION: Patent No. 6331613 GENERAL INFORMATION: APPLICANT: Dumoutier, Laure APPLICANT: Louhed, Jamila APPLICANT: Renauld, Jean-Christophe TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof FILE REFERENCE: LUD 5543.2 CURRENT PILING DATE: 1999-10-18 PRIOR PAPLICATION NUMBER: US09/194,568F CURRENT FILING DATE: 1999-10-16 PRIOR APPLICATION NUMBER: US09/178,973 PRIOR APPLICATION NUMBER: US09/178,973 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 LENGTH: 1119 TYPE: DNA ORGANISM: Mus musculus FEATURE: US-09-419-568F-7	Query Match 9.4%; Score 555.2; DB 3; Length 1119; Best Local Similarity 96.0%; Pred. No. 2.5e-120; Matches 580; Conservative 0; Mismatches 23; Indels 1; Gaps 1;	5221 ATAGCTTGGAGAGGGGGGGAGGATCGGGGAACTGGACCTGCTGTTTATGTC 5280	5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTCCTTCCT	5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400 	5401 GCTAACGTCCACCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAAA	5461 TAGTGTCAAGTTGTCCATGAGACAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520 	5521 ATATTTTATIGICATIGATAATGCAACAGAAAAGTAIGTACTTTAAAAAATTGTTTGAA 5580 	5581 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTCCATAACCAA 5640	TATITIALATATGTAAGTTTATTATAAGTATACATTTTATTTATGTCAGTTTATTA

λõ	5701 ATATGGATTTATTTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
ପ୍	990 ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 1048
λō	5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATACA 5820
qq	1049 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACGATGGATATCA 1108
δ	5821 TAAA 5824
qa	1109 TAAA 1112
4000	Coswet newslated. December 20, 2005, 21.42.27

Search completed: December 20, 2005, 21:42:37 Job time: 742.791 secs

Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 14, Appli Sequence 17, Appli Sequence 14, Appli Sequence 14, Appli Sequence 17, Appli Sequence 17, Appli Sequence 17, Appli Sequence 17, Appli Sequence 17, Appli Sequence 18, Appli Sequence 11, Appli Sequence 12, Appli Sequence 12, Appli Sequence 12, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli Sequence 15, Appli

US-11-013-920-1 US-10-084-298-1 US-10-256-298-1 US-10-873-972-1 US-11-15-387-1 US-10-925-055D-7 US-09-925-055D-7 US-09-925-055D-1 US-10-090-365-14 US-10-104-919-14 US-10-104-919-14 US-10-807-837-5 US-10-988-14 US-10-988-14 US-10-988-14 US-10-988-14 US-10-988-14 US-10-068-944-14 US-10-068-944-14 US-10-068-944-14 US-10-068-941-153 US-10-068-941-153 US-10-068-941-153 US-10-063-547-153 US-10-063-547-153

11177 11191 11191 11191 11191 11116 11116 11116 11116 11152 11152 11152 11152 11152 11152

215 215 215 215 215 215

218.4 2218.4 2218.4 2218.4 2216.4 221

ALIGNMENTS

Ч

```
December 20, 2005, 13:17:16; Search time 2968.2 Seconds (without alignments) 16534.837 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 gaattcaagtccacatgcaa......atattatctggtaaagtttg 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19587084
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9793542 segs, 4134689005 residues
                                                                                                                                                             - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 su
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-751-797-29
5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                %
Query
Match Le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the score greater tha and is derived by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              00000
77175
771100
111100
111100
111100
111100
111100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
11100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
1100
100
100
100
100
100
100
100
100
100
100
100
100
100
100
100
10
                                                                                                                                                                                                                                                                                                                                                                                                                      Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

$935

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scoring table:
                                                                                                                                                                 OM nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                                                                    е
6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Result
No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Run
```

| ished Applications NA Main:* cgn2_6/ptcodata/1/pubpna/USO8_PUBCOMB.seq:* cgn2_6/ptcodata/1/pubpna/USO8_PUBCOMB.seq:* cgn2_6/ptcodata/1/pubpna/USO8_PUBCOMB.seq:* cgn2_6/ptcodata/1/pubpna/USO9A_PUBCOMB.seq:* cgn2_6/ptcodata/1/pubpna/USIOA_PUBCOMB.seq:* cgn2_6/ptcodata/1/pubpna/USIOB_PUBCOMB.seq:* quence 29, Application US/09751797 Sequence 29, Application US/09751797 Sequence 29, Application US/09751797 Patent No. US20010024652A1 GENERAL INFORMATION: TAPLICANT: Dumoutier, Laure APPLICANT: Louned, Jamila APPLICANT: Louned, Jamila TITLE OF INVENTION: [Solated Nucleic Acid Molecules which Encode T Cell Inducible Fac: TITLE OF INVENTION: [TIPS] The Proteins Encoded, and Uses Thereof TITLE OF INVENTION: [Solated Nucleic Acid Molecules which Encode T Cell Inducible Fac: TITLE OF INVENTION: [Solated Nucleic Acid Molecules which Encode T Cell Inducible Fac: TITLE OF INVENTION: [Solated Nucleic Acid Molecules Which Encode T Cell Inducible Fac: FILE REFERENCE: LOUS 543.2 CURRENT APPLICATION NUMBER: US/09/751,797 PRIOR FILING DATE: 1998-10-18 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 LENGTH: 5935 TYPE: DNA PROTH: 5935 TYPE: DNA SEQ ID NO 29 CRANTURE: FEATURE: US-09-751-797-29 |
|--|--|
| ished Applications NA Main:* cgn2_6/ptcdata/1/pubpa/USON_PUBCOMB.seq:* cgn2_6/ptcdata/1/pubpa/USOS_PUBCOMB.seq:* cgn2_6/ptcdata/1/pubpa/USOS_PUBCOMB.seq:* cgn2_6/ptcdata/1/pubpa/USOS_PUBCOMB.seq:* cgn2_6/ptcdata/1/pubpa/USIOS_PUBCOMB.seq:* | ; Sequence 29, Application US/09751797 ; Patent No. US20010024652A1 ; GENERAL INFORMATION: ; APPLICANT: Dunded, Jamila ; APPLICANT: Louded, Jamila ; APPLICANT: Remaild, Jean-Christophe ; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof ; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof ; TITLE OF INVENTION: (TIFs) The Proteins Encoded, and Uses Thereof ; TITLE OF INVENTION: (1997) ; CURRENT APPLICATION NUMBER: 09/419,568 ; PRIOR PRILING DATE: 1999-10-18 ; PRIOR FILING DATE: 1999-10-26 ; NUMBER OF SEQ ID NOS: 29 ; SEQ ID NO 29 ; LENGTH: 5935 ; TYPE: DNA ; ORGANISM: Homo sapiens ; FERTURE: ; FERTURE: ; FERTURE: ; FERTURE: |
| cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USO9A_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USO9B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/ | ; Patent No. US20010024652A1 ; GENERAL INFORMATION: ; APPLICANT: Damoutier, Laure ; APPLICANT: Louhed, Jamila ; APPLICANT: Louhed, Jamila ; APPLICANT: Louhed, Jamila ; APPLICANT: Louhed, Jamila ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible ; TITLE OF INVENTION: (IIFS) The Proteins Encoded, and Uses Thereof ; TITLE OF INVENTION: (IIFS) The Proteins Encoded, and Uses Thereof ; TITLE OF INVENTION: (IIFS) The Proteins Encoded, and Uses Thereof ; CURRENT APPLICATION NUMBER: 09/419,568 ; PRIOR APPLICATION NUMBER: 09/419,568 ; PRIOR FILING DATE: 1999-10-18 ; PRIOR FILING DATE: 1998-10-26 ; NUMBER OF SEQ ID NOS: 29 ; SEQ ID NO 29 ; LENGTH: 5935 ; TYPE: DNA ; ORGANISM: Homo sapiens ; FERTURE: ; FERTURE: |
| cgn2_6/pcodata/1/pubpna/USOB_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USOB_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USOB_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USOB_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USIOB_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USIOD_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US | General Information: APPLICANT: Dumoutier, Laure APPLICANT: Dumoutier, Laure APPLICANT: Dumoutier, Laure APPLICANT: Dumoutier, Laure APPLICANT: Louhed, Jamila APPLICANT: Renauld, Jean-Christophe TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof TITLE OF INVENTION UNMER: US/09/178,797 CURRENT FILING DATE: 1999-10-18 PRIOR FILING DATE: 1999-10-26 PRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 SEQ ID NO 29 LENGTH: 5935 TYPE: DNA Homo sapiens FEBRUER: US-0751-797-29 |
| cgn2_6/pcodata/1/pubpna/USO9A_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USO9A_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PU | ; APPLICANT: Dumoutier, leaure ; APPLICANT: Dumoutier, leaure ; APPLICANT: Bouned, Jamila ; APPLICANT: Renauld, Jean-Christophe ; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible ; TITLE OF INVENTION: (TITE) The Proteins Encoded, and Uses Thereof ; TITLE OF INVENTION: (VITE) The Proteins Encoded, and Uses Thereof ; FILE REFRENCE: LUD 5543.2 ; CURRENT APPLICATION NUMBER: US/09/751,797 ; CURRENT FILING DATE: 1999-10-18 ; PRIOR FILING DATE: 1999-10-26 ; RIOR PELICATION NUMBER: US/09/178,973 ; PRIOR FILING DATE: 1998-10-26 ; SEQ ID NO 2.9 ; SEQ ID NO 2.9 ; LENGTH: 5935 ; TYPE: DNA ; PRATURE: ; FERTURE: ; FERTURE: ; FERTURE: ; FERTURE: |
| cgn2_6/ptodata/1/pubpna/USO/B PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* /cgn2_6/ptodata/1/pubpna/US10 | ; APPLICANT: Louned, Jama-Christophe; APPLICANT: Louned, Jama-Christophe; TITLE OF INVENTION: ISOJated Nucleic Acid Molecules which Encode T Cell Inducible; TITLE OF INVENTION: (ITF8) The Proteins Encoded, and Uses Thereof; TITLE OF INVENTION: (ITF8) The Proteins Encoded, and Uses Thereof; CURRENT APPLICATION NUMBER: US/09/751,797 ; CURRENT FILING DATE: 2000-12-29 ; PRIOR APPLICATION NUMBER: US09/178,973 ; PRIOR APPLICATION NUMBER: US09/178,973 ; PRIOR FILING DATE: 1998-10-26 ; NUMBER OF SEQ ID NOS: 29 ; SEQ ID NO 29 ; SEQ ID NO 29 ; TYPE: DNA ; PRADURE: Homo sapiens ; FEATURE: ; FEATURE: ; GSGANISM: Homo sapiens |
| cgn2_6/ptodata1/fpubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US10D_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US10B_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_PUBCOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_pubcOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_pubcOMB.seq:* cgn2_6/ptodata1/fpubpna/US11_pubcOMB.seq:* cgn2_6/ptodata1/fpubpna/US10_pubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/ptodata1/fpubcOMB.seq:* cgn2_6/pt | ## APPLICANT: Renauld, Jean-Christophe ## TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible ## TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof ## TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof ## TITLE OF INVENTION: (TIPS) The Proteins Encoded, and Uses Thereof ## FILE REFERENCE: LUD 5543.2 ## CURRENT APPLICATION NUMBER: 09/419,568 ## PRIOR FILING DATE: 1999-10-18 ## PRIOR FILING DATE: 1999-10-26 ## INVERS OF SEQ ID NOS: 29 ## INVENTION OF SEQ ID NOS: 29 ## INVENTION NUMBER: USO9/178,973 ## INVENTION NUMBER: USO9/178,973 ## INVENTION OF SEQ ID NOS: 29 ## INVENTION OF SEQ ID N |
| cgn2_6/pcodata/1/puppna/USIOE_PUBCOMB.seq:* cgn2_6/pcodata/1/pubpna/USIOC_PUBCOMB.seq:* cgn2_6/pcodata/1/pubpna/USIOC_PUBCOMB.seq:* cgn2_6/pcodata/1/pubpna/USIOC_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/USIOC_PUBCOMB.seq:* /cgn2_6/ptodata/1/pubpna/USIIC_PUBCOMB.seq:* e number of results predicted by chance to have a han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | TITLE OF INVENTION: 180.4EEG MUCLEAC ACLA MOLECULES WALCH INDUCATOR TITLE OF INVENTION: 180.4EEG MUCLEAC ACLA MOLECULES WALCH ENCORE I CELL INDUCATOR FILE REFERENCE: LUD 5543.2 CURRENT PAPLICATION NUMBER: US/09/751,797 CURRENT FILING DATE: 1999-10-18 FRIOR FILING DATE: 1999-10-18 FRIOR FILING DATE: 1998-10-26 NUMBER OF SEQ ID NOS: 29 SEQ ID NO 29 LENGTH: 5935 TYPE: DNA FRIOR FILING DATE: 1998-10-26 SEQ UD NO 29 CENTRAL FOR SEQ UD NOS: 29 SEQ UD NO 29 CENTRAL FOR SEQ UD NOS: 2 |
| cgn2_6/pcodata///puppna/USIOD_PUBCOMB.seq:* cgn2_6/pcodata///pubpna/USIOD_PUBCOMB.seq:* cgn2_6/pcodata///pubpna/USIOD_PUBCOMB.seq:* cgn2_6/ptodata///pubpna/USIOD_PUBCOMB.seq:* /cgn2_6/ptodata///pubpna/USIOD_PUBCOMB.seq:* /cgn2_6/ptodata//pubpna/USIOD_PUBCOMB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /cgn2_6/ptodata//pubcomB.seq:* /ccn2_6/ptodata//pubcomB.seq:* /ccn2_6/ptodata//pubcomB.seq:* /ccn2_6/ptodat | S |
| cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:* cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:* /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:* e number of results predicted by chance to have a han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | S - SD |
| cgn2_6/ptcdata/1/puppna/US10E_PUBCOMB.seq:* /cgn2_6/ptcdata/1/pubpna/US11_FUBCOMB.seq:* e number of results predicted by chance to have a han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | S |
| /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:* e number of results predicted by chance to have a han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | S -SD |
| e number of results predicted by chance to have a han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | s |
| e number of results predicted by chance to have a han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | S |
| han or equal to the score of the result being printed, by analysis of the total score distribution. SUMMARIES Length DB ID Description | S |
| by analysis of the total store distribution. SUMMARIES Length DB ID Description | -SD |
| SUMMARIES | -sn |
| DI | 0-SD |
| ID | 0-Sn |
| ID | 0-Sn |
| | 0-Sn |
| | - - |
| 5935 3 US-09-751-797-29 Sequence 29, Appl | |
| 7 US-10-627-273-29 Sequence | |
| US-09-751-797-8 Sequence | Query Match |
| 7 US-10-627-273-8 Sequence | Best Local Similarity 100.0%; Pred. No. 0; |
| US-09-751-797-25 Sequence | Matches 5935; Conservative 0; |
| 7 US-10-627-273-25 Sequence | |
| 3 US-09-751-797-9 Sequence | Qy 1 GAATTCAAGTCCACATGCAATCAATCGGAATACTTGTGTAAATTCTTCTTCAAATATTCC 60 |
| 7 US-10-627-273-9 Sequence | |
| 3 US-09-751-797-7 Sequence 7, | Db 1 GAATTCAAGTCCACATGCAATCAATCGAATACTTTGTAAATTCTTCATATATAT |
| 7 US-10-627-273-7 Sequence 7, | |
| 5 US-10-084-298-3 Sequence 3, | OY 61 ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTT 120 |
| 6 US-10-256-977-3 Sequence 3, | |
| 8 US-10-873-972-3 Sequence 3, 1 | DD 61 AICTATATAGTATAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTT 120 |
| 10 US-11-157-387-3 Sequence 3, | |
| 5 US-10-090-365-40 Sequence 40, | Qy 121 GCACAAGTAAAATGTCAGAGAATTAGCAAATGTATATTTTTTTT |
| 5 US-10-104-919-42 | |
| 8 US-10-807-837-10 | Db 121 GCACAAGTAAAATGTCAGAGAATTAGCAAATGTATATTTTTTTT |
| 9 US-10-968-432-42 S | |
| 10 US-11-045-944-40 | 0) 181 CTATGCTTAAAATGTCTATTAGATTGTTCACTACTGACATTTCCAAACTTGACCT 240 |
| 3 US-09-746-375-37 Sequence 37, | |
| 7 US-10-395-741B-37 Sequence 37, | Db 181 CTATGCTTAAATGTCTATTAGATTCTTCCTGCTGACATTTCCAAACTTGACCT 240 |
| 7 US-10-806-294-37 S | |
| 1177 10 US-11-013-741-1 Sequence 1, Appli | 1 Qy 241 TGGCTATGATTTCAACCTTTGTATTTGCATCTACCATAACTGTGTGTCTACCATGC 300 |

Oy 3541 ACAGGAGATGTATTCTCTGTAGGAAACTTTTTTTCCCCTTAAAAGCCTATAATCCACT 3600 3541 ACAGGAGATGTATTCTCTGTAGGAAACTTTTTTTCCCCTTAAAAGCCTATAATCCACT 3600 Qy 3601 TTCAGTCAACTTTGACTTTTATACCATGCTCACACAGAAAGGGTGTTTAGGCCGCTCT 3660 Db 3601 TTCAGTCAACTTTTATACCATGCTGTCACATGAAAGAGTGTTTAGGCCGCTCT 3660 Qy 3601 TTCAGTCAACTTTTATACCATGCTGTCACATGAAAGAGTGTTTAGGCCGCTCT 3660 Qy 3661 CGTGGCTCTGGGAAAAGCACCAATAGGGGAAAAATGTTATGCCGAGAAATCTGACTGGC 3720 Db 3661 CGTGGCTCTGGGAAAAGCACCAATAGGGGAAAAATGTTATGCCGAGAAATCTGACTGGC 3720 Db 3661 CGTGGCTCTGGGAAAAAGCACCAATAGGGGAAAAATGTTATGCCGAGAAATCTGACTGGC 3720	Qy 3721 AGGGAAACTGGGTCAGAGGTCCCCAAAGACCACTACAGGTGTTAAGTAGGAACAGTCGAG 378(Db 3721 AGGGAAACTGGGTCAGAGGTCCCCCAAAGACCACTACAGGTGTTAAGTAGGAACAGTCGAG 378(Qy 3781 GGTGGGTTCATATAATAGAATGGAACAGAGGGAAGAGATAAGCTACAAAGTTCATAG 384(Db 3781 GGTGGGTTCATATAATAGAATGGAACAGAGGGAAGGAAGATAAGCTACAAAGTTCATAG 384(Qy 3841 GGTCCTAAGTCTTTAAGATACAAAATAGCTGGGCTTCGTAACAAAGGAAGTCTGGG 3900 Db 3841 GGTCCTAAGTCTTTAAGATACAAAATAGCTGGTTGGGCTTCATAACAAAGGAAAGTCTGGG 3900 Qy 3901 AAGGCAGCAAGCATTGAGGAGATGGAAAAAAAAAAAAAA	Qy 3961 GCTACAAATCCTCCACGAGAGATTTTTCTTGGAGAAATCTAGAACAAGGGTGGTGGATT 4021 Db 3961 GCTACAAATCCTCCACGAGAGGATTTTTCTTGGAGGAATCTAGAACAAGGGTGGTGGTGGTT 4021 AGGTGGATCGCAGAAGGACTTTGCCATTTGAATCTGGGTTTTTGTCTCTCCATTGA 408		Qy 4141 TCCTACCTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCCGGACCTCCTTTGAC 4200 Db 4141 TCCTACCTGGAGTTTTACTAGTTTACGCAATGGAACAGACACTCGGGACCTCCTCTTGAC 4200 Qy 4201 AAGAAAAAAAAAAAAAAAAGGAAACCTGTTGTTTCTCTTGTTGTTGTTATGTTAAGAAA 4260	4201 AAGAAAAAAAAAAAAAAAAACCTGTTGTTTCTCTTGTTTGT	Qy 4321 AGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGG 438 Db 4321 AGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGG 438 Qy 4381 GCTATACAGAGAAAACCTGTCTCGGGAAAAAAAAAAAAA	4441 AGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	4501 AGGAGAGGAGAAGAGAAGAGAAGAGAAGAGAAGAGAA	Oy 4561 AGAGAAGAGAAGAGAAGAGAAGAGAGAGAGAGAGAGAG
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	GACCTACATAATCCGAAGAAGCATGCATTGAAAACTAGAAAGCTGGGCACAAACTTACTA [GAGATGATTITTGGCTCATTAAACTGATGCTCTGAAATGTGATCAAATCAAATCAACCCAGAAT AACAACAAAAGAGCTGGATTTGCAAATAGGACAAGTATTTAGAATCACTGGTATTAACAG	2821 CIGICAICTTAAAATAAAATATAAGCIGICTATTTAGCIGCCIATTTAAGATTAAACACAGGA 2880 2881 GIGGATAACTTCCCAATTTACTGGGCCTGGTTTCAATAGATAAAATATCAGTCATAGA 2940 2881 GIGGATAACTTCCCAATTTACTGGGCCTGGTTTCAATAGAGTAAAAATATCAGTCATAGA 2940	2941 TTAATTATAGTGTCATGAAAGTATGAAAACCCTTTCCTTACTTTTTACCTTCATT 3000 2941 TTAATTATAGTGTCATGAAAGTATGAAACCCTTTCCTTACTTTTTACCTTCATT 3000 3001 TCTTAGTTATTTTTTTTTTTTCTTCACCCCTGATCAAGCCACTAGTAAGCACCTATTT 3000 3001 TCTTAGTTATTTTTTTTTTTTCTTCACCCCTGATCAAGCCACTAGTAAGCACCTATTTG 3060 3001 TCTTAGTTATTATTTTTTTTTCTTCACCCCTGATCAAGCCACTAGTAAGCAACTAGTAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAGAAG	CTGCGAGCTATTATATGACTTTACAGCGAACAACATGCTGTGTGGGCCTCTTTGGGGAAG CTGCGAGCTATTATATGACTTTACAGCAACAACAATGCTGTGTGGCCTCTTTGGGGAAG CTGCGAGCTATTATATGACTTTACAGCAAACAACATTGCTGTGTGGCCTCTTTGGGGAAG GGAACAGGATAGCAGGGCTCAGGCTAGCAAGACTGGAGCTCCAAAGCCCAAAGGCA		AGGAAGCCTCTGGTTGATGGAATTATCAGTAAGATATCTACCTTTTTTTT	3361 AGAGCIAAACCGTCTCCTCTTCTTGTGTAGCTCATAAACCGCTTGTTTTCTTTTG 3360 3361 AGTGTTCATGCAGATTTTCAGTGCTCTGCCAGTTCTTGAGGGTTTGTTAC 3420 3361 AGTGTTCATGGCTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGTTACAGGGTTTGTTAC 3420	CTGACACCTGGGCTTGGATGTTAGCATGCCAAAGGCACACATTCTGAATGCCTGTGTA	3481 AAAGGTTATTATTCATTTACTTTTGAAAGGTGAAGTGTGTGT

දු		576
S d	4681 GGTCTTTGAGACAAGGCTTTTGAATTGAGCGCTCATCAATAGTTGATCATGGTCAGGTGG 4740 	5761 ATTTATGATAATBACTATAGAAACAAGNATCTTAGGCTTTAATAACACATGAATATC 582
& 43	4741 AGGGCTACCTGTCAGGCCGGGCCTGCTGGCTTAGCACTTAACATCTCCAGGTCTCAGTA 4800 	5821 TAMATCTTCTGTCTTGTMTTTTCTCCCTTTAMIATCAMAMATACTALATICTCATCTTTAMIATATCATCATCATCATCATCATCATCATCATCATCATCAT
ò a	4801 TCACTTCCTGCTGCTTAGGACAGAGTTGAGCAAACCTTTTTTTCCAACCCCCACT 4860 	OY 5881 TTACCCAATCATTCTCATGACTTGAGGTCATATTATCTGGTAAAGTTTG 5935
oy Pb	4861 AAAATTTAATTTACAAAAGGCAGTGTAATTTGTGGGATACAGTGTGATAATTGATCTATG 4920 	RESULT 2 US-10-627-273-29 ; Sequence 29, Application US/10627273
& g	4921 TGTGCATTGGGAAGGTTCAATAAGGTAGATCAATAGGCCCATCAACAGCTTTATGGGTG 4980 	GENERAL INFORMATION: ; APPLICANT: Dumoutier, Laure ; APPLICANT: Louhed, Jamila
& a	4981 TGAAATGCAAGTAATAGGTAGATGCCTGTGTGTCCTTAGGTCAGAAAGGCATGATTTT 5040 	; AFFLICANT: Kenauld, Jean-Chriscopne; ITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac; ITLE OF INVENTION: (TIFe) The Proteins Encoded, and Uses Thereof; FILE REFERENCE: LUD 5543.2
රු සි	5041 AAGGTCTTGGGCAAATCATATTATACTCATGTTAAAAATGCATTATGTTGATTATCAATC 5100 	; CURRENT APPLICATION NUMBER: 02710/627,273 ; CURRENT FILING DATE: 2003-07-25 ; PRIOR APPLICATION NUMBER: 025/09/751,797 ; PRIOR FILING DATE: 2000-12-29
රු සි	5101 TITTAGAGAGGCTGATACTTGGTTTTGGTGCTCAGCAAATGTCACCAGCTCTTTC 5160 	; PRIOR APPLICATION NUMBER: 09/419,568 ; PRIOR FILING DATE: 1999-10-18 ; PRIOR APPLICATION NUMBER: 0509/178,973 ; PRIOR FILING DATE: 1998-10-26
ò q	5161 TAACTAGTACCACTTTAGAAAATGCTACCGGGGCTCAAATTGGTTTGTATTCTTATTTTC 5220 	; NUMBER OF SEQ ID NOS: 29 ; SEQ ID NO 29 ; LENCTH: 5935 ; TYPE: DNA
& 43		; ORGANISM: Homo sapiens ; FEATURE: US-10-627-273-29
8 6	TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTCCTTCCT	Query Match Best Local Similarity 100.0%; Score 5935; DB 7; Length 5935; Best Local Similarity 100.0%; Pred. No. 0; Matches 5935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
3 8 8	GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAAA	Oy 1 GAATTCAAGTCCACATGCAATCAATCGAATACTTTGTAAATTCTTTCT
9 & 1	GCCTTCTAAAAAGAGAACAATAAGATCCCTGAATGGAACTTTTTTACTAAAGGAAAAGTGAAGAAAAGGCCAACAACAAGAAAAAGTCCACCATCAATAGAAAGAA	Qy 61 ATCTATATAGTATAAGTTATGTAGGATCATTAAAAATAATGTTTTGAGACTTATGTTT 120
8 &	GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGATAAAA TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACACACAAAGATTCATTGACA	Qy 121 GCACAAGTAAAATGTCAGAGAATTAGCAAATGTATTATTTTTTTT
යි හි :	TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 552 ATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAATTGTTTGAA 558	Qy 181 CTATGCTTAAAATGTCTATTAGATTGTTCACTACTGACATTTCCAAACTTAACTTGACT 240
g &	521 AIAITTIAITGICAITGAIAAIGCAACAGAAAAAGIAIGIACITTAAAAAATTIGITIGAA 558 581 AGGAGGTTACCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCA 564 	Qy 241 TGGCTATGATTTCAACCTTTGTATTTGCATCTACCATAACTGTGTGCTCACTTACCATGC 300 241 TGGCTATGATTTCAACCTTTGTATTTGCATCTACCATAACTGTGTGCTCACTTACCATGC 300
8 &		Qy 301 TATCCGAGGAGGATGTTTTTGCCTTTTGCTCTCTGGCTAACAGGCTCTC 360
원 &	5641 TACTTTATATATGTTAAGTTTATTTATATAAGGTATACATTTTATTTA	Qy 361 CTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGACTGCCTGC

8 6 8 6 8 6 8

8 6 8 6

6 6 6 6 6 6 6 6

g &

8 & 8

	ATGTCTTCAGACACCCCAACTATGGCAGACCTGGCAGACCTGGCAAGACGCGCGCG		2161 CACCGGATAGATTCTGTTAGTGAGTCTGCTTTTTTTTGCAGCACATCAGTGGTGACGA 2220 2161 CACCGGATAAGATTCTGTTAGTGAGTCTGCTTTTTTTTGCAGCACATCAGTGGTGACGA 2220 2221 CCAGAACATCCAGAAGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAGGTACTATTGGC 2280 2221 CCAGAACATCCAGAAGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGGTACTATTGGC 2280 2221 CCAGAACATCCAGAAGAATGTCAGAAGGCTGAAAGGAGACAGTGAAAAAGGTACTATTGGC 2280 2281 AAGCCACAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTTC	2341 CTCTTCTACTTTGTAACATTTTCTTTGACTTGTCTGGTCCGTTACTCACTTAG 2400	2461 CAATTCTGGAGCTAGCAGAAAGCTTAGCTCAGCAGTCTCATGAGCACTTGCTCGGAGGA 2520 2461 CAATTCTGGAGCTAGCAGAAAGCTTAGCTCAGCAGCAGTCTCATGAGCACTTGCTCGGAGGA 2520 2461 CAATTCTGGAGCTAGCAGAAGCTTAGCTCAGCTCTCATGAGCACTTGCTCGGAGGA 2520 2521 TGGCTTGTGACAGAGTCAATGCTAGAAGACAGCATCCCTGATTCCCAGCTCTGCACTTGC 2580 2521 TGGCTTGTGACAGAGTCAATGCTAGAAGACAGCATCCCTGATTCCCAGCTCTGCATTGC 2580 2521 TGGCTTGTGACAGAGTCAATGCTTAGACAGCATCCCTGATTGGGAAAGCCCACTTGC 2580 2581 CTAGTGGCCACGTGAATTACTTTAGCCTGATTAAGGAAAGCCCAATTCCCACC 2640
6 6 6 6 6 6 6 6 6	8 8 8 8 8	8 8 8 8 8	8 8 8 8 8	8 6 6	\$ 6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
	121 ICTITICIALININININININININININININININININININI		CTGGTGGACCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGCAG [1201 CTCCCCCAGTCAGACAGGCTTCCGGCCCTACATGCAGGAGGTGGTGGTGCCTTTCCTGACCAAA 1260 1261 CTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGGCTCTGGCTACCTATGCTCCTCTCTT 1320 1261 CTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGGCTCTGGCTACCTATGCTCCTCTTTT 1320 1321 TCCTCTTCTATTCCAGTAAGAACCCGAGGTCTGCCTCTCTTCTCTTCAAAGAGTGAGG 1380 1321 TCCTCTTCTATTCCAGTAAAAACCCCAAGGTCCTGCCTCTCTTCTCTTCAAAGAGTGAGG 1380	AGGCCTCAGCACCACCACATAGGCCACTTGAAATAGGTCACAAGGCTTTGGCTT 14 AGGCCTCAGCACCACCACATAGGCCACTTGAAATAGGTCACAAAGGCTTTGGCTT 14 AGGCCTCAGCACCACCACCACATAGGTCACATTGAATTGTTTAGTTAATAGTTTAATTTATTT

TANCTTCCTGCTGCTCTTAGCACGTTAGCACGTGACCAAACCCTTTTTTCCAACCCCCCACT TANCTTCCTGCTCGTTCGTTAGCACGTTAGCACGTGACCTTTTTTCCCAACCCCCCACT TANATTTAATTACAAAAGCAGTGTAATTTTTGGGAAAACCTTTTTTCCAACGTTTATTTTTTTT

1916 ATGAGGTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGCTGGTGGAAACTTCAGTAGG 197	2036 AGAACGAAATAGCTCAGAGAATCTAGGTCAACGTGAAATCTAGGTCACAGCGGGCAAAA 209	2156 GCTCCCACCGGATAAGATTCTGTTAGTCGCTTTTATTTTGCAGCACATCAGTGGT 2215 3883 GCTCCCACCGGATAAGATTCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGCGGT 3942 2216 GACGACCACAGAACATCCTTAGTCAGAAGGCTGAAGGAACAGTGAAAAAGGTACTA 2275	2276 TTGGCAAGCCAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTTC		2516 4243 2576	4303 CITECCIAGIOSCATGIGIANITACITICSCITGATIANOTALITICSCANARIOCEANITE TO STANDARIOCEANITE TO STANDARIOCEANITE TO STANDARIOCEANITE TO STANDARIOCEANITE TO STANDARIOCEANITACIANI STANDARIOCEANITACIANI STANDARIOCEANITACIANI STANDARIOCEANITACIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCE TACTRIGAGIANI STANDARIOCEANI STANDA	2756 AGANTAACAACAAAAGAGCTGGATTTGCAAATAGGACAAGTATTTAGAATCACTGGTATT 28 [4543 MAINGCIAICAICTIANITANAATATAGGGCCTGGTTTCAATAGGTAAAAATATCAGTC 2876 CAAGAGTGGATAACTTCCCAATTTACTGGGCCTGGTTTCAATAGGTAAAAATATCAGTC 4599 CAAGAGTGGATAGCCTCCCAATTTACTTGGCCTGGTTTCAAAGAGTAAAAATATCAGTC	2936 ATAGATTATAGTGTCATGAAGTATGAGTATGGAAACCCTTTCCTTACTTTTTACCT 2995
ACCCACTGCGGACATACATCTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG 951	CACITAGGGITITICICICITICAGGCCAGCCITGCAGATAACAACACAGACGICCGGCTC 269 ATCGGGGAGAAACTGTTCCGAGGAGTGAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG 107 ATCGGGGAGAAAACTGTTCCGAGGAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG 275 CTGCGGGAGAAACTGTTCCGAGGAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG 275 CTGCGGGGAGGTGGTGGACCTCTGGGATAGTCTGACGTATGAGCAGGGCTAG 113	2751 CTGCGGGGGGCTGCTGCTGCGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTC 2810 201 1132 TACCTGCAGGCTAAGGATCAGTGCTACCTGATGAAGGAGGTGCTCCAACTTCACCCTGGAA 1191 2811 TACCTGCAGGCTAAAGATCAGTGCTACCTGATGAAGGAGGTGCTCAACTTCACCTGGAA 2870 1192 GACATTCTGCTCCCCCAGTCAGACGGTTCCGGCCCTACATGCAGAGGTGCTCACCTTC 1251 201 202 203 203 204 205 205 205 205 205 205 205	CTGACCAAACTCGGCAATCAGCTCCTGGTAAGTCTGGCCAGCCA	CTTCACA ACAAAGG ACAAAGG TTTTATC	FTTTATC 3170 AAAAAGG 1551 AAAAAGG 3230		3406 1757 3462 1817	3463 TICCATGTGATGAGAGTTAAGAAACCAGTGTGTGTTTTATTTTTTTT	ACCTTTG 19 ACCTTTG 36

111	133 GTTTTACTCCTCTACAGATTTACTCTCTCTCTCTCTCTCT
THE CONTROL OF CONTROL OF THE CONTROL OF CON	8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6
THE CONTROL OF CONTROL OF THE CONTROL OF CON	
	THE CONTROL OF CONTROL OF THE CONTROL OF CON

```
1192 GACATTCTGCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTC 1251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2571 ACCCACTGCGGACATACATCTCTACTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCGGGGGGAGAAACTGTTCCGAGGAGTCAGTGTAAGTCCTCACTGTGATGAGCAGGGCTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2151 CCTGTGGGCCCAGGAGGCAAATGCGCTGCCCGTCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                                 221 GCATCTCTTCTCTCCATACCGCCTTGCCATTTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGGCTTTATCTCCGCAGGTCTCACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2391 AGGACTGGGTCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2631 CACTTAGGGTTTTCTCTCTTTCAGGCCAGCCTTGCAGATAACAACACAAGACGTCCGGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2691 Arceceagaaaacrerreceagaacreagreraarereceacrererareagaecageerag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCGGGAGCTGGTGGCCCTCTGGGATAGTCTGACGTATGACCCCTGCTGCTTCTTGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TACCTGCAGGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TACCTGCAGGCTAAAGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAA
                                                                                                                                                       GCATCTCTTTCTCTCCATACCGCCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG
                                                                                                                                                                                                                                                                                                                                                                                                                                  GGGCGCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCTCTTTAGAGACTCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AGGACTGGATCTTTTCTATTTCAAGGTCTCAGGACCATTTCCTATCTTGGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAGGACACATATACTGAATTTTATCTACAGAGCGCGTTTAGAAAGCCACCACGACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAATACTITCCATCCTGTTGTGCTCTTTCTGAACTCATACTCTCTTGGCTACTCCTGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          892 ACCCACTGCGGACATACATCTCACTTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CACTTAGGGTTTTCTCTTTCAGGCCAGCCTTGCAGATAACAACACAGACGTCCGGCTC
                                                                                                                                                                                                                                                                                     CCTGTGGGCCCAGGAGGCAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTC
                                                                                                                                                                                                                                                                                                                                     CAACITICCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCT
                                                                                                                                                                                                                                        Length 7445;
                                                                                                                   487;
                                                                                                                   Indels
                                                                                                                                           TACCATGCTATCCGACGAGCATGTTCCCCTGATGTTTTTGCCTTT
                                                                                            DB 7;
                                                                                                                   178;
                                                                                                                   0; Mismatches
                                                                                            Score 4245.2;
Pred. No. 0;
                                                                                            71.5%;
88.3%;
                                                                                            Query Match
Best Local Similarity 88.3
Matches 5039; Conservative
29
                                               musculus
 11
                                  TYPE: DNA
ORGANISM: Mus
  SEO
                       7445
                                                          ; FEATURE:
US-10-627-273-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2811
                                                                                                                                                                                                                 2031
                                                                                                                                                                                                                                                                                                                                                                                                                                                           2331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1072
                                                                                                                                           293
                                                                                                                                                                 1971
                                                                                                                                                                                                                                        413
                                                                                                                                                                                                                                                                2091
                                                                                                                                                                                                                                                                                        473
                                                                                                                                                                                                                                                                                                                                       533
                                                                                                                                                                                                                                                                                                                                                                                     593
                                                                                                                                                                                                                                                                                                                                                                                                                                    652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            952
NUMBER OF SEQ ID NO 8
                        LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              සු
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                       ያ ያ
                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                            8 6
                                                                                                                                                                                       ò
                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Dunoutier, Laure
APPLICANT: Dunoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Louhed, Jamila
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof
FILE REFRENCE: LUD 5543.2
FULD 5543.2
CURRENT APPLICATION NUMBER: US/10/627,273
FRIOR APPLICATION NUMBER: US/09/751,797
PRIOR APPLICATION NUMBER: 09/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5871
                                    6585
                                                                                  6645
                                                                                                                                                                                                                             6825
                                                                                                                                                                                                                                                    5571
                                                                                                                                                                                                                                                                                                                                                  5691
                                                                                                                                                                                                                                                                                                                                                                                                                                              5811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7244
                                                           5331
                                                                                                         5391
                                                                                                                                                       5451
                                                                                                                                                                              6765
                                                                                                                                                                                                       5511
                                                                                                                                                                                                                                                                                                                                                                         CATAICCAATAITITAIAIGIAAGIITAITIAITAIAAGIAIACAITITAITIAIGIC 7005
                                                                                                                                                                                                                                                                                                                                                                                                  5751
                                                                                                                                                                                                                                                                                                                                                                                                             7124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5931
                                                                                                                                 6705
                                                                                                                                                                                                                                                                                                  TCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAA
                                                                      GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTG
                                                                                                         CTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA
                                                                                                                                                         AAGTGAGAAGCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGA
                                                                                                                                                                                                      AAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGAT
                                                                                                                                                                                                                   TCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAAA
                                                                                                                                                                                                                                                                                                                                                  CATAACCAATACTTTATATATGTAAGTTTATTTATTATAAAGTATACATTTTATTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                  AGTTTATTAATATGGATTTATTTATAGAAAATTATCTGATGTTGATGTTGAGTATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                GCAAATAATATTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTATTTTCATAGCTTGGAGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCT
                                                                                                                      CTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA
                                                                                                                                                                     CTTATTTTCATAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCT
                                                             GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 8, Application US/10627273 Publication No. US20040110189A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTTG 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTTG 7248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 4
US-10-627-273-8
                                                                                                                                                                                                                                                                                                                                                                          6946
                                                                                                                                                                                                                                                                                                                                                                                                   5695
                                                                                                                                                                                                                                                                                                                                                                                                                         7006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7245
                                                                                                                                                         5392
                                                                                                                                                                                                       5452
                                                                                                                                                                                                                              9919
                                                                                                                                                                                                                                                     5512
                                                                                                                                                                                                                                                                             6826
                                                                                                                                                                                                                                                                                                    5572
                                                                                                                                                                                                                                                                                                                            9889
                                                                                                                                                                                                                                                                                                                                                                                                                                                 5752
                                    6526
                                                                                   6586
                                                                                                         5332
                                                                                                                                 6646
                                                                                                                                                                               9049
                                                                                                                                                                                                                                                                                                                                                    5632
                                                         6 6 6 6 6 6
                                                                                                                                                                                                                      QQ
                                                                                                                                                                                                                                                     6 6 6
                                                                                                                                                                                                                                                                                                                    8 8 8
                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                  8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                            셤
```

592

2030

352

2090

412

2150

472

2210

532

2330

651

2390

711

2450

771

2510

831

2570

891

2630 1011

951

2870

1191

2690

2750 1131

8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6

4433 AAAGAAGAAGAAGAAGAAGCAACCAAAGAGCAGAGAGGAG	5964	0y 4733 TGAGGGGGAGGCCTGGCTGGCTGGCTTGGCTTTAGCATTCTCGGG 4792	4913 GANCTATGTGCATTGTGCAAGGTTCAATAAGGTAGATCAATAGGCCCATCAACAGCTT 497 1917 1 1 1 1 1 1 1 1 1	5032 CATGRITTTAAGGTCTTGGGCAAATCAITATACTCATGTTAAAAATGCAITATGTTGA 5 [00 04.66 AGCTCTTTCTAACTGGTACCACTTTAGAAAATGCTACCTGTGCTGCAAATTGGTTTGTATT 6525	Oy 5332 CTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA 5391
3356 TTTTGAGTGTTCATGGCTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGTTAGAGGGTTT 3415 5070 TTTTGAGTGTTCATGGCTTTGTAGATTTTTAGTGCTCTGCCAGTTCTTGTTAGAGGGTTT 5129 3416 GTTACCTTGACACCTGGATGTTAGAGTTAGAGGCACACACTTCTGAATGCTT 3475 5130 GTTACCTTGACACCTGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCCT 5189 3476 GTGTAAAAGGTTATTATTCATTTACTTTGCAAAGGTGAAAGGTGTGAGAAGG 3535		CGCTCTCGTGGCTCTGGGAAAAGCACCAATAGGGGAAGAAATGTTATGCCGAGA	o drccadddgaercatetaatadaatadaacadagaddagatadgataagata 5 TCATAGGGTCCTAAGATACAAATAGCTGGTTGGGCTTCATAACAAAGGAA 6	5610 TCTGGGAAGGCAAGGTGAGAGGGAAATGGAAAAAAGAGAATGTAGAGGA 5666 3953 TTTGAAAAGCTACAAATCCTCCACGAGAGGATTTTTCTTGGAGAAATCTAGAACAAGGGT 4012 [AGCACAGGCAGCATGGTGGCCCATGCCTTTAATCCCAGCATTTAGCACAGCATTTAGCACAGCATTTAGCACAGCATTTAGCACAGCATTTCTAGCAGCATTTCTAGCAGCATTTCTAGCAGCAGCCAGC

S36 CTTCCAGCAGCCCTACACCGCACCTTATGCTGGCCAAGGAGGTACACCTGCA 595 [976 GCCAGCCTTGCAGATAACACACAGACGTCATCGGGGAGAAACTGTTCCGAGGA 1035 689 GCTAGCTTGCAGATAACACACAGACGTTCCTCTTGTTGGAGAAACTGTTCCACGGG 748 1036 GTCAGTGTAAGTCCTCACTGTGATGAGCTTCTCTCTTTGGAGAAACTGTTCCACGGG 748 1039 GGTCAGTGTAAGTCCTCACTGTGATGAGCGCTCCTTTGGAGAACTGTTCCACGGG 768 1039 GGTCAGTGTAAGTCCTCACTGTGATGAGCCGTTCCCTTTCTCTTTCTCTTCTCTCTC
666666666666666666666666666666666666666	6 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8
	USEOUR SECULATION OF CONTROLL

2947 CATTANTICTIRGGGGAAATTICAGATCCTATGAACATCATGAAGAACTTIC 2406 2668 TIGAAACTAGAAAGCTGGGCCAAACTTACAAGAATTITICAGATCATTA 2723	3261 ANTERCAGNAGETHACCTTATCTCCTTCTTCTARGAGGCTAAACCG 311
	1871 CATGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG

1198

928

1318

1258

us-09-751-797-29.rnpbm

Thu

```
CTGGATTCTGGCGTCCAAGGGAATTCAAGAGCTCAGGAAATCTAGGTCACTGTTGAAATC 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TAGGTCATTGTGGGCCAAAATTACTAAGAGCTTTAATTCCAGGTGAATTGTACTGTACCTC 1870
                                                                                                                                                                                                                                                           GGCTCAGCAACAGGCTAAGCACATGTGTAAGTTCAGCTCTCAGCCTATGCCCACCTACCC 1048
                                                                                                                                                                                                                                                                                               1379 GGAGGCCTCAGCACCACCACCATCATAGGCCACTTGAAATAGGTCACAAAGGCTTTGGC 1438
                                                                                                                                                                                                                                                                                                                                                                                                                                              ITCAATTGAGTAATACTTTGAGTTTGTATTAGTTAAGCTTTATTTGTTTTATCCATGGAA 1498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGAAATCAACTCAAATTCTGTAGGATGAGAAGATGTTGGGAACGAAAAAAAGGCCTAGAT 1558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAATGGGAAGGCTTAAAGTCG-----GTGGTGGGTCGGCAGACTGTTGCCCTGTTGA 1450
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1451 TGTCATGGGAAGCCACAAAATCGGAGGCGTGTGAACTTGATGCCGCTGAACATTTGAAAC 1510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TATGAAAAAAAGTTTGAGTGGAGTGGCCCAGTAAAAGGCCCTAGGACTTACTGAAGAGG 1570
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGCGGCTTTTCACACGAGAAACTTTATGCTCATCTCTTGTGCTACACTCCCACCTTTGAT 1917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -----ACCGTTCTTGCTAC 1956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1631 GAGATACGATTGAGGTTTTATTCCTTACAGAATTTGCATAAACTACTCCGCTCTTTCCAC 1690
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1957 TGGTGGAAACTTCAGTAGGATTCCCCAAAGACGAGGACAGCTCTTCTGTAAGGGAGGAC 2016
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGGATTTCAGTGTCCTAGAAAAATAGCTCAGAGAATCTAGGTCAACGTGAAATCT 2076
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2137 AGATATACTGAGGTATTGGGCTCCCACCGGATAAGATTCTGTTAGTGA-GTCTGCTTTTA 2195
                                                                                                                                                                                                                                                                                                                                                                                                         1109 TAAGCTAGCAGGAAGAAGTGTCTTGGCAGCAGTGTTATCAGGAGTCA-----TTTGGG 1161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1162 Archtagagtatrigcirirgcririgacigagicacarcrigagiriaragiggtgaarg 1221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTCTGGAACTTAAGTGTACAGAAGCCGCATTGGTTTGTCTTCGGAAAAAAGGCAACTC 1281
                                                                                                                                                                                                                        1259 AACTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGGCTCTGGCTACCTATGCTCCTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATGGCACAGAGGAAAGTTGAAGGGAAAAAGAGGAAGATGGAGAGGCCTCAATGTTGGGGG
                                                                                                    retricecrearcharagerrecageerrararageaggaggreerecerrecea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGGTTGCGTAA---GATGAGAAAGGTGTTGGGAAAACATCTAGCTGTGGAAATGGATCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGAGTCCAAGTACTTGTTGGGAGAAATCCACTGAGTACAAGTACTTGTGGGGGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1339 TTGAGTCTAAGTTGTTGAGGGGAGGGGATGGCATGGAGAAATTAGAAGAAAAGTGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGTGAAAGGTCACTCCTTTTTCCATGTGATGGAGGTTAAGAAAAATCAGTGTGAGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGATGTCTTCAGACACCCCAACTATGGCAGACTGTGGGAGACCTGGCATTTAGGGA-AGG
     GGTGGACCCTCTGGGATAG----TCTGACGTATGACCCCTGCTGCTTCTTGTCTACCTGC
                                                                                                                                                TGCTCCCCCAGTCAGACAGGTTCCGGCCCTACATGCAGGAGGTGGTGCCTTTCCTGACCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGGCTAAGGATCAGTGCTACCTGATGAAGCAGGTGCTCAACTTCACCCTGGAAGACATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2077 AGGICACAGGGGCAAAAIGACIGAACGCCICIATICCAGGIGAACGGICACGIGCCIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1918 GAGGTTAAGCTCAGGTTTCGTTTCT-----
     1083
                                                                            1139
                                                                                                                                                  1199
                                                                                                                                                                                      929
                                                                                                                                                                                                                                                           989
                                                                                                                                                                                                                                                                                               1319
                                                                                                                                                                                                                                                                                                                                   1049
                                                                                                                                                                                                                                                                                                                                                                                                                                               1439
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1499
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1559
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1751
                                         809
                                                                                                              698
                                셤
                                                                          ઠે
                                                                                                  8
                                                                                                                                       કે
                                                                                                                                                                               8
                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   а
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCAGCCTTGCAGATAACAACACACACGTCCGGCTCATCGGGGAAAACTGTTCCGAGGA 1035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Grcagrgraagtccrcacrgraargagcagggc-----ragcrgcgggagcr 1082
                                                                                                                                                                                                                                                                                                                                                                                        415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC 268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGATGATTTTTTTTTTTCTTTATGCCTCTGTGCATTGTTCTAAACTCATGCACACACTCTG 568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTATAAATTITITITITICIATITIGCICAAIGICCAGACCCITAGICTITICITCTICCAG 688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCTGCA 595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        269 AATÓCTGCTCTTCTCGCTTGGATCTACTTGGAATCCAAATAGTTCTTAAACTTTTTCTTCA 328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTTATCCCTGAGGGTAGATAAATTTTCTG 388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ----CTGAGACCCACTGCGGACATACATCTCTAC 916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATTCTGCTTTTAGTCTTTATGATGTTGCTCTGGGGAGACGGGATGGGGGCACATGTCTAT 628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGGCCTTCAGGACACATATACTGAATTTTATCTACAGAGGCGCGTTT--AGAAAGCCA 821
                                                                                                                                                                                                                                                                                                                                                                                                                            88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITGGCCTITATGATACATAGATTTTTCCCAAAGAGGGCGCCATTCAGTAATCCAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTTGGTACAGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTCTTTCTCTCCATACCGCCTTGCCATTTCTCTGAAGCACTTGCAAACTCTTTAGGGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCCACGACTGCAATACTTTCCATCCTGTTGTGCTCTTTCTGAACTCATACTCTTTGGC
                                                                                                                                                                                                                                                                                                                                                                                        CTCTCTCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                           crecrrecedagreacederrecreaserrasaarrererecaarsecedecededaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCT-------CTTTAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACTCTTTAAGGACTGGATCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTACAGGCTTTTTCTTCCATCTCCTTGTCACCCCAGGCACTTAGGGGTTTTTC-TCTCTTTCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Greadroradecracagricidaceaacagecegegegegegegegerecaregeractregeger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCTTCTCATTGCCCT
                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                    Indels 152;
                                                                                                                                                                                                                                                                                                                  Length 4797
                                                                                                                                                                                                                                                                                                                Score 650; DB 7; L
Pred. No. 1.6e-133;
0; Mismatches 1285;
FILE REFERENCE: LUD 5543.2
CURRENT APPLICATION NUMBER: US/10/627,273
CURRENT FILING DATE: 2003-07-25
PRIOR APPLICATION NUMBER: US/09/151,797
PRIOR FILING DATE: 2000-12-29
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1998-10-26
PRIOR FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 56.5%;
Matches 1863; Conservative
                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TACTC-
                                                                                                                                                                                                    LENGTH: 4797
                                                                                                                                                                                                                                                                              US-10-627-273-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1036
                                                                                                                                                                                                                                                                                                                                                                                        356
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        596
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    917
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   749
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8 & 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 & 8 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
```

8 6 6 6

8 8 8

8 8 8

8 8

ð 유 ઠે 셤 ઠે 1338 1678 1738

```
Cell Inducible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5521 ATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAA 5580
                                                                                                                         3111 CTTTGTAGTTTTAAATTGTGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATG 3170
GACGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG 2990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATTTTCAGTAACAAGCTTAACCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAA
                                                                                                                                                                       CTITIGCAGATITITCAGTGCTCTGCCAGTTCTTGT - TAGAGGGTTTGTTACCTTGACACC
                                                                                                                                                                                                                                         TGGGCTTGGATGTTAGCATGCCAAAGGCACACACTTCTGAAATGCCTGTGTAAAAGGTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                     ----TTCTTATAGAAGCTAAACCG
                                                                                                     TCTCTCCTTCTTGTGTAGGCTGATAAACACGCTTGTT--TTCTTTTGAGTGTTCATGG
                                                                                                                                                                                                                                                                         3171 GAGGGCTGAATGTTAGCATGCCACAGACAAGGCATGCTTTACACATCTTGCTTAAAAAAT
                                                                                                                                                                                                                                                                                                             TATTCATTTACT-----TTGTCTTTGGAAAGGTGAAGTGTGTGTGTGAGAAAGAACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAAGCTTGGAGAGAGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5281 TCTGAGAAATGCTTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      568 rergagaaargerrecerereagegaagaageragaaacgaagaacrecrecer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INCOMENT: Louved, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Louned, Jamila
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: ISOJated Nucleic Acid Molecules which Encode T Cell
TITLE OF INVENTION: (TIFB) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIFB) The Proteins Encoded, and Uses Thereof
FILE REFERENCE: LUD 5543.2
CURRENT PAPLICATION NUMBER: US/09/751,797
CURRENT FILING DATE: 2000-12-29
PRIOR FILING DATE: 1999-10-18
PRIOR PELLING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 29
SEQ ID NO 9
TENNING: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5221 ATAGCTTGGAGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 602.4; DB 3;
Pred. No. 2.7e-123;
0; Mismatches 1;
                                     AATTATCAGTAAGATATCTACCCTTATCTCC-
                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 9, Application US/09751797; Patent No. US20010024652A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 99.8%;
Matches 603; Conservative C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 1111
                                                                                                                                                                                                                                                                                                                                                                                                                    09-751-797-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; FEATURE:
US-09-751-797-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5461
     2932
                                     3261
                                                                       2991
                                                                                                       3314
                                                                                                                                                                         3372
                                                                                                                                                                                                                                             3430
                                                                                                                                                                                                                                                                                                                3490
                                                                                                                                                                                                                                                                                                                                                3231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                              유
상
                                                                                                                                                                                                    셤
                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                          ે
                                                            셤
                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3260
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2903
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2931
   CATGGGTGTGGAGGTTCATAAAGTTTCAGCACAACATTAAAGATAATTATGTTATTG 1930
                                                                                                                         AGACAGTGAAAAAGGTACTATTGGCAAGCCACAATACTAAGCCATTCAGTAGGAGACGTG 2315
                                                                                                                                                                                                             2051 AATGTTGTTTTCTTTCTTTTTCCATCACTTTGTGATTTTTCACTTGATTCC 2110
                                                                                                                                                                                                                                                                                    2111 CTACCACCAGGCGATT----ACTTTGCTGTGTATGTAGATATATATATATATAT 2166
                                                                                                                                                                                                                                                                                                                                TCAATCTGTGTGTTTAAATTT---GTAAGTCACAATTCTGGAGCTAGCAGAAAGCTTAGCTC 2490
                                                                                                                                                                                                                                                                                                                                                                2167 gangicagirriccaaaircingcaaarngragaairiciagaaciggerigggarcinagcir 2226
                                                                                                                                                                                                                                                                                                                                                                                                    AGCCAGTCTCATGAGCACTTGCTCGGAGGATGGCTTGTGACAGAGTCAATGCTAGAAGAC 2550
                                                                                                                                                                                                                                                                                                                                                                                                                                    Grcragicacaraaccrcagaricresesarescrcasiescasasarassecrasares 2286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGCATCCCTGATTCCCAGCTCTGCAC-TTGCCTAGTGGCCACGTGTAATTACTTTAGCCT 2609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GATTAAGTATTTGGGAAA--GCCAATTCCCACCGACCTACATAATCCGAAGAAGCATGCA 2667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2407 TITAAAAAACAGAAAAATGCCTATGGGCAAATTTATTTGAAGTCATTTTTGAAGTCATTAA 2466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATATAGGGCTAATTTCTGGAGTAATAAACACTTAT------TTTGAATTATCATAATA 2578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rcr---arcadararrdarraradrrrahangcandadadadad-cccdarcrcrrr 2634
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2754
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCTTCACACCCTGATCAAGCCACTAGTAAGCACCTATCTGCTGCGAGCTATTATATGTACT 3080
                                                                                                                                                       ACACAGIGAAAAAGGIAGGACIGAIAACIGICAAIGCIAAGICAIGCAAIAGGAGAGACA 2050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2635 ATACAGGTTCAAATAGAGTAAAAATATTAGTAAGAGATTTATTATAGTTAAATGGAAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ttägactiaciatagt-gactcacccaaaccggaggaatgattaggagcagtgaagt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GAGGCTCTTCACAAGTGGGTGTGCTTAAGTAATCAGAAACAGGAAGGCTCTGGTTGATGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGAAAACTAGAAA----GCTGGGCACAAACTTACTAGAGATGATTTTTTGAGCTCATTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2724 ACTGATGCTCTGAAATGTGATCAAATCAACCCAGAATAACAACAAAAGAGCTGGATTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2467 IGCATTGCTTTGAAACTTGGAAGAATAAACTCAGAACAATGAGAAAAAGGCTGGACTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAATAGGACAAGTATTTAGAATCACTGGTATTAACAGCTGTCATCTTAATTTAAATATAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGTCTATTTAGCTGCCTATTTAAGATTAAACACAAGAGTGGATAACTTCCCAATTTACTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGAGTTGGAAACC - - CTTTCCTTACTTTTTACCTTCATTTCTTAGTTATTATTTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             idaariidgiaagerititititititeleereteeceateagaeerieegatifere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ccrrcacrcccrcaacaarcccraagaagcarrrarccargargagcragrarrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTACAGCAAACATTGCTGTGTGGCCTCTTTGGGGAAGGGAACAGGATAGCAGGAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2815 CTATAGTGAATGATACCATCATGTGGCCTATTTGGTGAAAAGAACA--ACAATGGAAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCAGGCTAGCAAGTCTGGACTCAACCTAAAGCCAGAGGCATGGTTGATAGCAGAGAAAGT
                                                                                     ritianadecanaricaaderidardaecrecanariceadaededaargeecaaadecreaade
                                                                                                                                                                                                                                                              CTACTGTCTGGTCCATTACTCACTTAGCTGCACCTGCATCTAGCTTGGTCTTATAGATCTT
                                                       TTTTGCAGCACATCAGTGGTGACGACCAGAACATCCAGAAGAATGTCAGAAGGCTGAAGG
                                                                                                                                                                                            GGGATTTCTTTCTCTGCTTCCCAGTCTCTTCT--ACTTTGTAACATTTTCTTTGACTTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2527
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3021
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2873
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3201
                                                                                                                                                                                                                                                                                                                                  2434
                                                                                                                                                                                                                                                                                                                                                                                                    2491
                                                                                                                                                                                                                                                                                                                                                                                                                                      2227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2844
                                                       2196
                                                                                         1931
                                                                                                                           2256
                                                                                                                                                           1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2904
                                                                              8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 & 8 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                     8
```

Fac

3489 3230 3541 5460

807

5340

627

567

ö

5400

```
Sequence 7, Application US/09751797

Sequence 7, Application US/09751797

Patent No. US20010024652A1

GENERAL INFORMATION:

APPLICANT: Unmoutier, Laure

APPLICANT: Loubled, Jamila

APPLICANT: Loubled, Jamila

TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fact

TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5543.2

CURRENT APPLICATION NUMBER: US/09/751,797

CURRENT PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NO 7.
                                                                                                         5640
                                                                                                                                                                         5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5340
                                                                                                                                                                                                                                                               ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5460
                                                                                                                                                                                                                                             5701 ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
                                                                                                                                                                                                                                                                                                               10048 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 1107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520
                                                                                                                           868 AGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA 927
                                                                                                                                                                                             928 TACTITIATATATATGTAAGTITTATTATTATAAGTATACATTITATTTATGTATGCAGTITATTA 987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  630 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 689
     748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 807
                                   5521 ATATITIATIGICATIGATAATIGCAACAGAAAAAGTATGTACTITAAAAAATIGTITIGAA
                                                                     808 ATATITITATIGICATIGATAATGCAACAGAAAAAGTATGTACTITAAAAAATIGITITGAA
                                                                                                       5881 AGGAGGTTACCTCTCATTCCTCTAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                570 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAAAACGAAACTGCCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5341 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                           TACTITATATATATGTAAGTTTATATATAAGTATACATTTTATTATGTCAGTTTATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5221 ATAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          510 AAAGCTTGGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 555.2; DB 3;
Pred. No. 8.9e-113;
0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 96.0%;
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                   TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                   1108 TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 9
US-09-751-797-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-751-797-7
                                                                                                                                                                         5641
                                                                                                                                                                                                                                                                             988
                                                                                                                                                                                                                                                                                                                                                                                 5821
                              ઠે
                                                                셤
                                                                                                     8
                                                                                                                             g
                                                                                                                                                                         ઠે
                                                                                                                                                                                                    원
                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Dumoutier, Laure
APPLICANT: Louded, Jamila
APPLICANT: Roundly, Jean-Christophe
TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (TIPs) The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: (UNBER: US/10/627,273
CURRENT FILING DATE: 2000-12-29
PRIOR PELING DATE: 1999-10-18
PRIOR PELING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 29
                                                                                                                                                                                                                                                           ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 5820
                                                                                                                    ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
                                                                                                                                                                                                             5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          567
                                                                     627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      747
GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                     AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        508 AAAGCTTGGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5221 ATAGCTTGGAGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 602.4; DB 7;
Pred. No. 2.7e-123;
0; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                              ; Sequence 9, Application US/10627273; Publication No. US20040110189A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.1%;
al Similarity 99.8%;
603; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                              TAAA 5824
                                                                                                                                                                                                                                                                                                                                                              TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-627-273-9
                                                                                                                                                                                         5701
                                                   5581
                                                                                                                                                                                                                                                           5761
                                                                                                                                                                                                                                                                                                                                                              1108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5461
                   808
                                                                                     868
                                                                                                                                                      928
                                                                                                                                                                                                                          988
                                                                                                                                                                                                                                                                                                                              5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    688
                                                                                                                                             a
                                                                                                                                                                                                               Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                   셤
                                                   ð
                                                                         8
                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                   S
S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ठे
```

```
5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5340
                                                                                                                                                                                                                                                5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                               5580
                                                                                                                                                                                                                                                                                                                                              5701 ATATGGATTTATTAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5761 ATTIATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 5820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             810 ATATTTTATTGTCACTGATGATACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA 869
                                                                                                                                                                                                                                                                                                                                                                          652
                                                                                              750 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 809
                                                                                                                                                                                                                                                                                              870 AGGAGGITACCICICATICCITIAGAAAAAAGCITAIGIAACITCAITICCATAICCAA 929
is Sequence 3, Application US/10084298

j Sequence 3, Application US/10084298

publication No. US20030099649A1

general information:
   APPLICANT: Jacobs, Kenneth
   APPLICANT: Pittman, Debra
   APPLICANT: Pittman, Debra
   APPLICANT: Pouser, Lynette
   APPLICANT: Pouser, Lynette
   APPLICANT: Pouser, Lynette
   APPLICANT: Pouser, Lynette
   APPLICANT: Composition and Method for Treating Inflammatory
   TITLE OF INVENTION: Disorders
   FILE REFERENCE: G15358 CIP
   FURE REFERENCE: G15358 CIP
   CURRENT APPLICATION NUMBER: G0/270,823
   PRIOR PILING DATE: 2001-04-23
   PRIOR PILING DATE: 2001-04-03
   PRIOR PILING DATE: 1999-04-28
   PRIOR PILING DATE: 1999-04-28
   PRIOR PILING DATE: 1900-04-28
   PRIOR FILING DATE: 1000-04-28
   PRIOR FILING DATE: 1000-04-28
   NUMBER OF SEQ ID NOS: 10
   SOFTWARE: PatentIn Ver. 2.1
   SEQ ID NOS: 10
   SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5281 TCTGAGAAATGCTTGCGTCTGGCGAGAAGAAGCAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           533 AAAGCTTGGAGAGAGTGGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5221 ATAGCTTGGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                 5521 ATAITITATIGICATIGATAAIGCAACAGAAAAAGTAIGTACTITAAAAATIGITIGAA
                                                                                                                                                                                                                                                     AGGAGGTTACCTCCTTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                   5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 1166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 555.2; DB 5;
Pred. No. 9.1e-113;
0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 96.0<sup>3</sup>
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
CRGANISM: Murine
US-10-084-298-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 11
US-10-084-298-3
                                                                                                                                                                                                                                                     5581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                   ò
                                                                                                   셤
                                                                                                                                                    ò
                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ₹
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 7, Application US/10627273

Sequence 7, Application US/10627273

Sequence 7, Application US/10627273

Sequence 7, Application Work US20040110189A1

GENERAL INFORMATION:

APPLICANT: Dumoutier, Laure

APPLICANT: Louhed, Jamila

APPLICANT: Renauld, Jean-Christophe

TITLE OF INVENTION: (TIFS) The Proteins Encoded, and Uses Thereof

FILE REFERENCE: LUD 5543.2

CURRENT APPLICATION NUMBER: US/10/627,273

CURRENT FILING DATE: 2003-12-29

PRIOR FILING DATE: 2000-12-29

PRIOR PLING DATE: 1999-10-18

PRIOR PLING DATE: 1999-10-18

PRIOR PLING DATE: 1999-10-18

PRIOR PLING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 29

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO 7

SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
                                                                                                                                                                                                                                                                                                                                                                             5760
                                                                                                                                                                                                                                                                                                                                                                                                         5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 5820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     630 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 689
                                                                                                        810 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTGTTTGAA 869
                                                                                                                                                                                                                                                                                                          870 AGGAGGITACCICICATICCITIAGAAAAAAGCITAIGIAACTICATITICCATAICCAA 929
  5221 ATAGCTTGGAGAGAGCGGAGATCAAAGCGATCGGGGAACTGGACCTGCTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     510 AAAGCTTGGAGAGAGTGGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAAAGGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5341 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAAA
                                                                                                                                                                                                                                                                                 TACTTTATATATGTAAGTTTATTATTATAAAGTATACATTTTTATTATGTCAGTTTATTA

                                                                                                                                                                                                                                                                                                                                                                               ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                AGGAGGITACCICTCATICCICIAGAAGAAAAGCCIATGIAACTICCATIAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9.4%; Score 555.2; DB 7;
96.0%; Pred. No. 8.9e-113;
iive 0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1109 TANA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5821 TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 1119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 10
US-10-627-273-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; FEATURE:
US-10-627-273-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5401
                                                                                                                                                                                                                                                                                 5641
                                                                               5521
                                                                                                                                                                                5581
                                 750
                                                                                                                                                                                                                                                                                                                                                                               5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                              ΩQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                        g
                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                 셤
                                                                               ò
                                                                                                                                                                                ઠ
```

ij

5340

652

a

요 ઠે 8 8 8

g

8 g ठ 요

g ò 요 ઠે 유

δ

```
5581 AGGAGGITACCICTCATICCICIAGAAAAGCCIAIGIAACTICATITCCATAACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOHENCANT: Li, Jing
APPLICANT: Tan, Xiang-Yang
APPLICANT: Tan, Xiang-Yang
APPLICANT: Tan, Xiang-Yang
APPLICANT: Tomkinson, Kathleen N.
APPLICANT: Pittman, Debra M.
APPLICANT: Veldman, Geertruida M.
APPLICANT: Veldman, Geertruida M.
APPLICANT: Pouser, Lynette
TITLE OF INVENTION: Antibodies Against Interleukin-22 and Uses Therefor
FILE REFERENCE: AM101524
CURRENT APPLICATION NUMBER: US/10/873,972
CURRENT APPLICATION NUMBER: US 60/480,652
PRIOR FILING DATE: 2003-06-23
PRIOR FILING DATE: 2002-02-25
PRIOR FILING DATE: 2001-02-23
PRIOR FILING DATE: 2001-02-23
PRIOR FILING DATE: 2001-02-33
PRIOR FILING DATE: 2001-04-03
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn Version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5521 ATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTTAAAAAATTGTTTGAA 5580
                                                                                                                                                                                                                           3341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
5400
                                                                                                                                                                                                                                                                                                                 5401 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460
                                                                                                                                                                                                                                                                                                                                                                                                       5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        953 TATTTTATATATGTAAGTTTATTATTATAGAGTATACATTTTATTATTATGTCAGTTTATTA 1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1013 ATATGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 1071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1072 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAACACACATGGATATCA 1131
                                                                                                                                                                                                                                                                                                                                                                                                                                   773 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         833 ATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAATTGTTTGAA 892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  893 AGGAGGITACCTCCATTCCTTTAGAAAAAGCTTATGTAACTTCATTTCCATAACCAA 952
                                                                                                                                                                                                                                                  653 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAAA
                                                                                                                                                                                                                                                                                                                                          593 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAAACTGCTTCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5701 ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                        533 AAAGCTTGGAGAGAGAGAGAGATCAAGGCGATTGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                    5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA
  1; Gaps
  23; Indels
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; Sequence 3, Application US/10873972; Publication No. US20050042220A1; GENERAL INFORMATION:
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5821 TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1132 TAAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
US-10-873-972-3
                                                                                   셤
                                                                                                                                  8
                                                                                                                                                                     요
                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ્ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATATGGATTTATTTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TACTITATATATGTAAGTITATTATTATAAGTATACATTITATTATGTCAGTITATTA 5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAAACACATGAATATCA 5820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Jacobs, Kenneth
APPLICANT: Jacobs, Kenneth
APPLICANT: Fouser, Lynette
APPLICANT: Fouser, Lynette
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: Spaulding, Vikki
APPLICANT: MASS Disorders
TITLE OF INVENTION: Composition and Method for Treating Inflammatory
TITLE OF INVENTION: Disorders
FILE REFRENCE: GIS38 CIP
CURRENT FILING DATE: 2002-09-27
CURRENT FILING DATE: 2002-09-10
PRIOR FILING DATE: 2001-03-23
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/281,353
PRIOR APPLICATION NUMBER: 60/281,473
PRIOR FILING DATE: 1999-04-28
PRIOR FILING DATE: 2000-04-28
NUMBER OF SEQ ID NOS: 10
SECTION SECTION NUMBER: 09/561,811
                                                                                                                                         653 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                           TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                5581 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                 TAGEGECAAGGECCAEGAGGCAGAGGEAGACTEGAEAACCACAAAGAETCAETGACA
                                                                                                                                                                                                                                                                                            ATATTTTTTTTTCACTGATACAACAGAAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 555.2; DB 6; Length 1166; Pred. No. 9.1e-113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3, Application US/10256977; Publication No. US20030157106A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1132 TAAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 3
LENGTH: 1166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 12
US-10-256-977-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-256-977-3
                                                                                                                                                     713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     953
                                                                                                           5401
                                                                                                                                                                                                 5461
                                                                                                                                                                                                                                                773
                                                                                                                                                                                                                                                                                         5521
                                                                                                                                                                                                                                                                                                                                      833
                                                                                                                                                                                                                                                                                                                                                                                                                              893
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5821
                       5341
```

```
TAAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5821 TAAA 5824
                                                                                                        ; TYPE: DNA
; ORGANISM: Murine
US-11-157-387-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
US-10-090-365-40
                                                                                                                                                                                                                                                                                                                                                    5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                    5521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  5581
                                                                                                                                                                                                                                                                                                                             653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                   8
                                                                                              5280
                                                                                                                                              5340
                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400
                                                                                                                                                                                                                                           5460
                                                                                                                                                                                                                                                                                                                                                                                        AGGAGGTTACCTCTCATTCCTCTAGAAGAAAGCCTATGTAACTTCATTTCCATAACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                       TACTTTATATATGTAAGTTTATTATTATAAGTATACATTTTATTATGTCAGTTTATTA 5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAAGCAAATAAT 5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1013 ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGCAAATAAT 1071
                                                                                                                                                                                                                                                                                          TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520
                                                                                                                                                                                                                                                                                                                                         ATATITITATIGICATIGATAATGCAACAGAAAAAGTATGTACTITAAAAAATIGTITGAA 5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1072 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCA 1131
                                                                                                                                                                     652
                                                                                                                                                                                                                   713 GCTAACGTCCATCATTATTAGAAGATTTCACATGAAACCTCGGCTCAGTTGAAAAAGAAAA 772
                                                                                                                                                                                                                                                                                                     ATATITITATICTCACTGATGATACAACAGAAAAATAATAATGTACTTTAAAAAATTGTTTGAA 892
                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 3, Application US/11157387

Publication No. US20050238648A1

GENERAL INFORMATION:

APPLICANT: Jacobs, Kenneth

APPLICANT: Pittman, Debra

APPLICANT: Fouest. Lyneette

APPLICANT: Fouest. Lyneette

APPLICANT: Spaulding, Vikki

APPLICANT: Xuan, Dejun

TITLE OF INVENTION: Composition and Method for Treating Inflammatory

TITLE OF INVENTION: Disorders

FILE REFERENCE: GI5388 CIP

CURRENT FILING DATE: 2005-06-20

PRIOR APPLICATION NUMBER: US/11/57,387

CURRENT FILING DATE: 2005-06-20

PRIOR APPLICATION NUMBER: 60/270,823

PRIOR PELING DATE: 2001-02-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5211 ATAGCTTGGAGAGAGGGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                            GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                              Gaps
                                                                       1,
                                              Length 1166;
                                                                       Indels
                                              9.4%; Score 555.2; DB 8;
96.0%; Pred. No. 9.1e-113;
tive 0; Mismatches 23;
                                                           Best Local Similarity 96.0
Matches 580; Conservative
TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TAAA 1135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 14
US-11-157-387-3
                      US-10-873-972-3
                                                                                                                                                                                                                     653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5761
                                                                                                                                              5281
                                                                                                                                                                                                                                                                                                                                          5521
                                                                                                                                                                                                                                                                                                                                                                833
                                                                                                                                                                                                                                                                                                                                                                                          5581
                                                                                                                                                                                                                                                                                                                                                                                                                                        5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1132
                                                                                                                                                                                             5341
                                                                                                                                                                                                                                           5401
                                                                                                                                                                                                                                                                                          5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                953
                                               Query Match
                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                              ద
                                                                                                                                                                                  ò
                                                                                                                                                                                                              8 è
                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                  6 B 6
                                                                                                                                                                                                                                                                                                                                                                                        ₹
                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                 요
                                                                                                                                             ò
```

```
5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1072 ATTTATGACAATAACTATGGAAACAAGATATCTTAGGCTTTAATAAACACATGGATATCA 1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5761 AITTAIGAIAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATAICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5701 ATATGGATTTATATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              713 GCTAACGTCCATCATTATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAAGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATATITIATIGICATIGATAATGCAACAGAAAAGTATGTACTITAAAAAATIGITIGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    833 ATATTTTATTGTCACTGATGATACAACAGAAAATAATGTACTTTAAAAAATTGTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       893 AGGAGGTTACCTCTCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                                                                                                                                                                                                            5221 ATAGCTTGGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                  5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                    ;
                                                                                                                                                                                                                                                                                                          DB 10; Length 1166;
                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                        Query Match
9.4%; Score 555.2; DB 10
Best Local Similarity 96.0%; Pred. No. 9.1e-113;
Matches 580; Conservative 0; Mismatches 23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 40, Application US/10090365; Publication No. US20030077706A1; GENERAL INFORMATION: APPLICANT: Presnall, Scott R. APPLICANT: Kindwogel, Wayne APPLICANT: Chen, Zhi TITLE OF INVENTION: Mouse Cytokine Receptor
PRIOR APPLICATION NUMBER: bu, cor, cor, prior Filing Date: 2001-04-03

PRIOR FILING DATE: 2001-04-03

PRIOR FILING DATE: 1999-04-28

PRIOR FILING DATE: 2000-04-28

PRIOR FILING DATE: 2000-04-28

NUMBER OF SEQ ID NOS: 10

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 3
```

```
5280
                                                                                                                                                                                                                                                                                                                                                                                                                                                         5340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5460
                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 988 ATATGGATTTATTTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5521 ATAITITATIGICATIGATAATGCAACAGAAAAGTATGTACTITAAAAATIGTTIGAA 5580
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5581 AGGAGGTTACCTCTCATTCCTCTAGAAAAGCCTATGTAACTTCATTTCCATAACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5701 ATATGGATTTATTATAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
                                                                                                                                                                                                                                                                                                                                                                                                                       567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               688 GCTAACGTCCACCATCATTAGAAGATTTCACATGAAAACCTGGCTCAGTTGAAAGAGAAAA 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       568 retgagaaargeriegeretgagegagaagaageragaaaceaagaacrgerecrieer 627
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGGAAA 687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   748 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 807
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TACTITATATATGTAAGTITATTTATTATAAGTATACATTITATTTATGTGGTITATTA 987
                                                                                                                                                                                                                                                                                                                                                                                                                                                     5221 ATAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                   508 AAAGCTTGGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                                                                                                             Query Match

9.1%; Score 541.4; DB 5; Length 1050;
Best Local Similarity 99.8%; Pred. No. 1e-109;
Matches 542; Conservative 0; Mismatches 1; Indels 0;
FILE REFERENCE: 01-08
CURRENT APPLICATION NUMBER: US/10/090,365
CURRENT FILING DATE: 2002-03-04
PRIOR PILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-02
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 49
SOFTWARE: FREESEQ for Windows Version 3.0
SEQ ID NO 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Search completed: December 21, 2005, 21:09:14 Job time : 3001.2 secs
                                                                                                                                                                                         TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                           ; FEATURE:
; NAME/KEY: CDS
; LOCATION: (50)...(589)
US-10-090-365-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |||
ATT 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5761 ATT 5763
                                                                                                                                                                             LENGTH: 1050
                                                                                                                                                                                                                                                                                                                                                                                                                                                       5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         628
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     808
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         928
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1048
                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            å
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

THIS PAGE BLANK (USPTO)

Luis Page Blank (uspto)

```
, Appl
Appli
Appli
3, App
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 18, Appl
Sequence 88, Appl
Sequence 5, Appli
Sequence 13473, A
                                                                                       December 20, 2005, 13:17:12 ; Search time 413.821 Seconds (without alignments) 7442.822 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Appl
Appli
Appli
Appli
Appli
Appli
Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                      1 gaattcaagtccacatgcaa.......atattatctggtaaagtttg 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 42,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence Sequence Sequence 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence Sequence S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                      Published Applications_NA_New:*

1. /cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*

2. /cgn2_6/ptodata/2/pubpna/USO6_NEW_PUB.seq:*

3. /cgn2_6/ptodata/2/pubpna/USO7_NEW_PUB.seq:*

4. /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

5. /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

6. /cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*

7. /cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*

8. /cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*

9. /cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*

9. /cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*

10. /cgn2_6/ptodata/2/pubpna/USI1_NEW_PUB.seq:*
                                                                                                                                                                                                                                                                                                   8336576
GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-11-177-987-42
US-11-177-987-8
US-11-177-987-9
US-11-177-987-7
US-11-177-987-7
US-11-102-24-153
US-10-933-025-24
US-10-933-025-24
US-10-933-025-24
US-10-933-025-24
US-11-177-987-25
US-11-177-987-25
US-11-177-987-25
US-11-177-987-25
US-11-177-987-25
US-11-177-987-25
US-11-177-987-25
US-11-177-987-25
US-11-177-987-18
US-11-177-987-18
US-11-177-987-18
US-11-177-987-18
US-11-177-987-18
US-11-177-987-18
US-11-177-987-18
US-11-177-987-18
                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                   4168288 segs, 259477437 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                           - nucleic search, using sw model
                                                                                                                                                                                                                    IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                  seq length: 0
seq length: 200000000
                                                                                                                                               US-09-751-797-29
5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11152
11152
1171936
260203
171094
171094
135019
10166
696
126552
2695
2695
171936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.9 2868
1.9 394468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4621
10166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    184868
              Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   114.8
111.4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5935
4245.2
65.0
602.4
555.2
159.4
145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          128.8
127.6
126.4
125.4
125.4
125.4
120.4
1120.4
                                                                                                                                                                       Perfect score:
                                                                                                                                                                                                                       Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       117
                                                           OM nucleic
                                                                                                                                                                                                                                                                                                                                Minimum DB
Maximum DB
                                                                                                                                                                                         Seguence:
                                                                                                                                                                                                                                                                   Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                              Database
                                                                                            Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Result
No.
```

24	111.2	1.9 201	٥	US-10-995-561-7/585	sednence	1/282/ A
	108.4	1.8 380749	9	US-10-995-561-13216	Sequence	13216, A
	104.2	1.8 76559	9	US-10-995-561-13288	Sequence	1328
c 27	100.6	1.7 182314	7	US-11-112-908-45	Sequence	45
28	98.6	1.7 2277	7	US-11-059-275-1	Sequence	1,1
53	98.4	1.7 173602	7	US-11-121-086-25	Seguence	25, Appl
30	97	1.6 162289	7	US-11-121-086-20	Seguence	20
c 31	95.8	1.6 160226	7	US-11-121-086-29	Sequence	29,
32	95.8	1.6 169495	7	US-11-121-086-61	Sequence	61,
33	94.8	1.6 150314	7	US-11-112-908-24	Sequence	24, Appl
c 34	94	1.6 184000	7	US-11-121-086-37	Sequence	37,
35	93.4	1.6 65723	9	US-10-995-561-13200	Sequence	132(
36	92.6	1.6 167116	7	US-11-121-086-44	Sequence	44, Appl
c 37	9.06	1.5 179892	7	US-11-112-908-39	Sequence	39,
38	90.4	1.5 150468	7	US-11-112-908-56	Sequence	26,
39	90.4	1.5 193789	7	US-11-112-908-55	Seguence	55,
40	90.4	5 2	7	US-11-121-086-31	Seguence	31,
41	89.4	1.5 13964	9	US-10-995-561-13500	Sequence	13500, A
c 42	89.4	1.5 15357	9	US-10-995-561-13362	Sequence	1336
43	89.4	1.5 215308	7	US-11-121-086-77	Sequence	77, Appl
44	89	1.5 182303	۲	US-11-121-086-45	Sequence	45,
45	88.2	1.5 317876	9	US-10-995-561-13227	Sequence	1322
				SENGMINOLIA		

```
APPLICANT: Dumoutier, Laure
APPLICANT: Remauld, Jean-Christophe
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded T Cell Inducible Fac:
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: INTERIOR 11, 17, 987
FILE REFERENCE: LUD 5664
CURRENT APPLICATION NUMBER: US/11/17, 987
CURRENT FILING DATE: 2005-07-07
PRIOR APPLICATION NUMBER: US/99/626,617
PRIOR APPLICATION NUMBER: US/99/19,568
PRIOR FILING DATE: 1999-10-18
PRIOR FILING DATE: 1999-10-16
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1999-10-26
NUMBER OF SEQ ID NOS: 43
SEQ ID NO 42
LENGTH: 5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTATGCTTAAAATGTCTATTAGATTGTTCACTACTGACATTTCCAAACTTAACTTGACCT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61 ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61 ATCTATATAGTATAAGTTATTGTAGGATCATTTAAAAATAATGTTTTGAGACTTATGTTT 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               121 GCACAAGTAAAATGTCAGAGAGAATTAGCAAATGTATAGTATTATTTTTATATAAAAT 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 GAATICAAGICCACAIGCAAICAAICCGAAIACTITGIAAAIICTCTICITCAAAIAICC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAATTCAAGTCCACATGCAATCAATCCGAATACTTTGTAAATTCTCTTCTTCAAATATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 5935;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 5935;
100.0%; Pred. No. 0;
ive 0; Mismatches
Sequence 42, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 100.
Best Local Similarity 100.
Matches 5935; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-11-177-987-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

1311	
\$ 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	
1 TICCCACATACATTCAACTTTCAACTACTACCATACTACTAC	1261 CTCAGCAATCAGCTCAGCTCCTGTGTAAGTCTGGCTCTGGCTACCTATGCTCCTCTCTT 1320

8 6 8 6 8 6 8 6

8 6 6 6

8 6 8 6

8 8 8

q

원 장

6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8
2401 CTCCACCCCACCTACCTACCTCACCCCACTACCTCACTCCACTCCACTCCACTCCACTCCACTCCACCCCACTCACTCCACTCACTCCACTCACTCCACTCACTCCACTCACTCCACTCACTCACTCCACT

g & g

3 B 3 B 3 B 3 B 3 B 3

aagagaagaagaagaagaagaagaagaagaagaaagaa	Qy 5701 ATATGATTTATTAGAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
	QY 5761 ATTTATGATAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA 5820
GGTCTTTGAGACATGGAGCCTTTTGAATTGAGCGCTCATCAATAGTTGATCATGGTCAGGGGG AGGCTAACTGTCAGGCCGAGCCCTGCTGAGCTTAAGATCATCCAGGTCTCAGTA	QY S821 TAAATCTTCTGTAATTTTTCTCCCTTTAATATCAACAATACCATCATCATC
4741 AGGGCTACCTGTCAGGCCGAGCCCTGCTTAGCACTTAACATCTCCAGGTCTCAGTA 4800 4801 TCACTTCCTGCTGCTTAGCACAGTTAGGAGTTGAGCAACCTTTTTTTCCAACCCCACT 4860 4801 TCACTTCCTGCTGCTTAGGAGTTAGGAGTTGAGCAAACCTTTTTTTCCAACCCCACT 4860	Qy 5881 TTACCCAATCATTCTCATGACTTCATGACTTGACTTTG 5935
araatttaatttacaaaaggcagtgtaatttgtgggatacagtgtgataattgatctatg 	RESULT 2 US-11-177-987-8 ; Sequence 8, Application US/11177987
4921 TGTGCATTGTGCAAGGTTCAATAAGGTAGATCAATAGGCCCATCAACAGCTTTATGGGTG 4980 	; FUBLICALION NO: OSZUDJOZITEJAI ; GRNEMAZION: ; APPLICANT: Dumoutier, Laure ; APPLICANT: Renauld, Jean-Christophe
4981 TGAAATGCAAGTAATATAGGTAGATGCCTGTGTGTCCTTAGGTCAGAAAGGCATGATTTT 5040 	; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof; FILE REFERENCE: LUD 5664; CURRENT APPLICATION NUMBER: US/11/17,987
5041 AAGGTCTTGGGCAAATCATATATACTCATGTTAAAAATGCATTATGTTGATTATCAATC 5100 	CORRENT FILING DATE: 2005-07-07; PRIOR APPLICATION NUMBER: US/09/626,617 PRIOR APPLICATION NUMBER: US09/419,568
5101 TTTTAGAGAAGGCTGATACTTGGTTTTGGTGCTCAGCAAGCA	FRIOR FILING DATE: 1999-10-18 FRIOR APPLICATION NUMBER: US09/354, 243 FRIOR PILING DATE: 1999-07-16 FRIOR APPLICATION NUMBER: US09/178, 973
5161 TAACTAGTACCACTTTAGAAAATGCTACCCGTGCTCAAATTGGTTTGTATTCTTATTTTC 5220 	; PRIOR FILING DATE: 1998-10-26 ; NUMBER OF SEQ ID NOS: 43 ; SEQ ID NO 8 ; LENGTH: 7445
5221 ATAGCTTGGAGAGAGGGAGAGATCAAAGGGATCGGGGAACTGGACCTGCTGTTTATGTC 5280 	; TYE: DNA ; ORGANIS: Mus musculus ; FEATURE: US-11-177-987-8
5281 TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAACGAAGAACTGCTCCTTCCT	Query Match Best Local Similarity 88.3%; Pred. No. 0; Matches 5039; Conservative 0; Mismatches 178; Indels 487; Gaps 20;
5341 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400 	Oy 293 TACCATGCTATCCGAGGAGCATGTTCCCCTGATGTTTTTGCTTTTGCTCTCTCGCTAAC 352
5401 GCTAACGTCCACCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAGAAAA 5460 	Oy 353 AGGCTCTCCTCTGAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCTGCA 412
5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA 5520 	Qy 413 GAAATCTATGAGTTTTTCCCTTATGGGGACTTTGGCCGCCAGCTGCCTGC
5521 ATATITIATIGICATIGATAATGCAACAGAAAAGTATGTACTITAAAAAATTGTTGAA 5580 	QY 473 CCTGTGGGCCCAGGAATGCGCTGCCATCAACACCCCGTGCAAGCTTGAGGTGTC 532
5581 AGGAGGITACCTCTCATTCCTCTAGAAAAGCCTATGTAACTTCATTTCCATAACCA 5640 	Oy 533 CAACTTCCAGCAGCGTACATCGTCAACCGCACCTTTATGCTGGCGAAGGAGGTACAGCT 592
5641 TACTTTATATATGTAAGTTTATTTATATAGTATACATTTTATTTA	Qy 593 GCARCTCTTTCTCTCCCATACCGCCTTGCCA-TTTCTCTGAAGCACTTGCAAACTCTTTAG 651

6 6 6 6 6 6 6 6 6 6 6

8 6 8 6 8 6 8

8 6 6 6

1698 TGAAGGGAAAGAGGAGGAGGCCTCAATGTTGGGGGTGTGAAAGGTCACTCTTT 1757 	1758 TTCCATGTGATGGAGGTTAAGAAAATCAGTGTGTGAGTTTGATGTCTTCAGACACCCC 1817 	1818 AA	1856 GGCGCGCTTTTCACACGAGAAACTTTATGCTCATCTTTTGGCTACACTCCCACCTTTG 1915	1916 ATGAGGTTAAGCTCAGGTTTCGTTTCTACCGTTCTTGCTACTGGTGGAAACTTCAGTAGG 1975 	1976 ATTCCCCAAAGACGAGACAGCTCTTCTGTAAGGGAGGGACCTGGATTTCAGTGTCCTAG 2035 3703 ATTCCCCAAAGGACAGGACACCTTCTGTAAGGGAGGGACCTGGATTTCAGTGTCCTAG 3762	2036 AGAACGAAATAGCTCAGAGAATCTAGGTCAAAGTCTAGGTCACGGCGGCAAAAA 2095 	2096 TGACTGAACGCTCTATTCCAGGTGAACGGTCACGTGCCTCAGATATACTGAGGTATTGG 2155 	2156 GCTCCCACCGGATAAGATTCTGTTAGTGAGTCTGCTTTTATTTTGCAGCACATCAGTGGT 2215	2216 GACGACCAGAACATCCAGAAGAATGTCAGAAGGCTGAAGGAGACAGTGAAAAAGGTACTA 2275	2276 TTGGCAAGCCACAATACTAAGCCATTCAGTAGGAGACGTGGGGATTTCTTTC	2336 CCAGICTCTICTACTITGTAACATITTCTITGACTIGICTACTGTCTGGTCCATTACTCA 2395	2396 CTTAGCTGCACCTGCATCTAGCTGGGTCTATAGATCTTTCAATCTGTGTCTAAATTTGTA 2455	AGTCACAATTCTGGAGCTAGCAGAAAGCTTAGCTCAGCCAGTCTCATGAGCACTTGCTCG 251 	2516 GAGGATGGCTTGTGACAGGGCAATGCTAGAAGACAGCATCCCTGATTCCCAGCTCTGCA 2575	2576 CTTGCCTAGTGGCCACGTGTAATTACTTTAGCCTGATTAAGTATTTGGGAAAGCCAATTC 2635	2636 CCACCGACCTACATAATCCGAAGAAGCATGCATTGAAAACTAGAAAGCTGGGCACAAACT 2695	TACTAGAGATGATTTTTGAGCTCATTAAACTGATGCTCTGAAATGTGATCAAATGCACCC 275:	2756 AGAATAACAACAAAAGAGCIGGATITIGCAAATAGGACAAGIAITIAGAATCACIGGIAIT 2815
୪ ବ	승 <u>염</u>	& g	S G	& a	දු පු	රු සි	& a	& A	& 8	& A	රු සි	දු පු	& g	B &	& 8	& 8 8	& 8 &	ò
GGGCGCTTTATCTCCGCAGGTCTCACTACCTATCTTTCTGTCTCTTTAGAGACTCTTTA	SGGCGCTITATCTCCGCAGGTCTCATTTCAAGGTCTCGGCTCTCTTTAGAGACTCTTTA 23 AGGACTGGATCTTTTTCTATTTCTATTTCAAGGTCTCAGGACCATTTCCTACTTGCCT 77 CONTROL	772 TCAGGACACATATACTGAATTTTATCTACAGGCGCGTTTAGAAAGCCACCCAC	CAATACTTTCCATTCTGTTCTTCTGAACTCATACTCTTGGCTACTCTGAGTACTTTCATACTTTCCATACTTTCTGAGTACTCTTGAACTCATACTTTCCTGGCTACTCCTGAGTACTTTCCATACTTTCCTGAACTCATACTTTCCTGAACTCATACTTTCCTGAACTCATACTTTCCTGAACTCTTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTCTGAACTCTTATACTTCTTGAACTCTCTGAACTCTTTCTGAACTCTTCTGAACTCTTTCTGAACTCTTTCTGAACTCTTTCTGAACTCTTTCTT	ACCCACTGCGGACATACATCTCTACTACAGGCTTTTCTTCCATCTCCTTGTCACCCAGG	CACTTAGGGTTTTCTCTTTCAGGCCAGCCTTGCAGATAACACACAGACGTCCGGCTC	ATCGGGGGAAACTGTTCCGAGGGTCAGTGTAAGTCCTCTGTGATGAGCAGGCTAG	CTGGGGGGGTGGTGGGACCCTCTGGGTAGTCTGACGTATGACCCCTGCTGCTTCTTGTC 11	IGCGGGAAGCIGGIGGACCCIIIGGGAAAGGIGGACGIAIGAACCCIGGIGCIICIIGGIC 281 TACCGGGGGTAAGGAATAGGTAACCGGAAAGGAGGGGGGCCCAACTTAACCTGGAAA 119 THIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	GACATTCTGCTCCCCCAGTCAGACAGGTTCCGGCCCTACAGAGGTGGTGCTTTC 125 [CTGACCAAACTCAGCAATCAGCTCAGTCTGAAAGTCTGGCTAGCTA	CCTCTCTCTCTCTCTTCTATTCCAGTAAGAACCCGAGGTCCTGCCCTCTCTCT	AGAGTGAGGAGGCCTCAGCACCACATAGGCCACTTGAAATAGGTCACAAAGG 143 AGAGTGAGGAGGCCCTCAGCACCACCATCATAGGCCACTTGAAATAGGTCACAAAGG 311	CTTTGGCTTCAATTGAGTAATACTTTGGGTTTGTATTAGTTAAGCTTTATTTGTTTTATC 149	CATGGAAAGAATCAACTCAAATTCTGTAGGATGAGAAAGATGTTGGGAACGAAAAAAGG 	CCTAGATAGAGAAACAGATCTGCTGAGTACAGTACTTATGGGGGGGG	ATATICACTGAGTCCCAGTACTTGTTGGGAGAAATCCACTGAGTACAGTACTTGT1	GCGCGAAACGAATCCACTGACAAAGTACTTGTGGGGGGAAGGAA	

8 4 8 6 8 6 8 6 8 6 8 6

```
356
                                                                                                                                                                                                                                                                                                   29
                                                                                                                                                                                                                                                                                                                       416
                                                                                                                                                                                                                                                                                                                                          89
                                                                                                                                                                                                                                                                                                                                                                                                                        209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   959
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          509
                                                                                                                                                                                                                                                                                                                                                              476
                                                                                                                                                                                                                                                                                                                                                                                                     536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       822
                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                   6765
                                                                                                                                                                                                                                                                                                                                                                                                                        6945
                                                                             5151
                                                                                                                                                                                                 5331
                                                                                                                                                                                                                                         5391
                                                                                                                                                                                                                                                            6705
                                                                                                                                                                                                                                                                                5451
                                                                                                                                                                                                                                                                                                                       5511
                                                                                                                                                                                                                                                                                                                                                                                                                                            5691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCATCATCATTACCCAATCATTCTCATGATTTCATGCTTGACCCATATTATACTGTTAAA 7244
                                                                                                                                                                                                                                                                              AGTTTATTAATAAGGATTTATTATAGAAACATTATCTGCTATTGATATTT-AGTATAAG
                                                 CATGATTTTAAAGGTCTTGGGCAAATCATATATATACTCATGCTAAAAATACATTATGTTGA
                                                                                                                               GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGAAGTAGAAACTG
                                                                                                                                                                                                                                                                                                                     AAGAGAAAATAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGAT
                                                                                                                                                                                                                                                                                                                                  TIGHTHABAAAGGAGGTTACCTCTCTTTAGAAAAAAAGCTTATGTAACTTCATTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATATCCAATATTTTATATGTAAGTTTTATTTATATGTAAAGTTTTATATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCAAATAATTATGACAATAACTATGGAAACAAGGATATCTTAGGCTTTAATAAACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATGATTTTAAGGTCTTGGGCAAATCATATTATACTCATGTTAAAAATGCATTATGTGA
                                                                                      CTTATTTTCATAGCTTGGAGAGTGGAGAGATCAAGGCGATTGGGAAACTGGACTGCT
                                                                                                                                                                                                 GTTTATGTCTCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAACGAAGAACTG
                                                                                                                                                                                                                                         CTCCTTCCTGCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA
                                                                                                                                                                                                                                                    CTCCTTCCTGCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGA
                                                                                                                                                                                                                                                                                                                                                            TCATTGACAATATTTTATTGTCATTGATAATGCAACAGAAAAAGTATGTACTTTAAAAA
                                                                                                                                                                                                                                                                                                                                                                                 TCATTGACAATATTTTATTGTCACTGATGATACAACAGAAAAATAATGTACTTTAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTTTATTAATATGGATTTATTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCAAATAATATTTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGAATATCATAAATCTTCTGTCTTGTAATTTTTCTCCCTTTAATATCAACAATACCATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCGTCATCATTACCCAATCATTCTCATGACTTCATGCTTGACTCATATTATCTGGTAAAG
                  TATGGGTGTGAAATGCAAGTAATATAGGTAGATGCCTGTGGTGTCCTTAGGTCAGAAAGG
                                                                             AGCTCTTTCTAACTAGTACCACTTTAGAAAATGCTACCCGTGCTCAAATTGGTTTGTATT
                                                                                                                                                           CTTATTTTCATAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCT
                                                                                                                                                                                                                                                                                                                                                                                                      TTGTTTGAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                            CATAACCAATACTTTATATATATGTTTTATTATTATAAGTATACATTTTATTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTTG
                  6286
                                                         6346
                                                                                                6406
                                                                                                                    5152
                                                                                                                                       6466
                                                                                                                                                           5212
                                                                                                                                                                             6526
                                                                                                                                                                                                5272
                                                                                                                                                                                                                    6586
                                                                                                                                                                                                                                                            6646
                                                                                                                                                                                                                                                                              5392
                                                                                                                                                                                                                                                                                                   90/9
                                                                                                                                                                                                                                                                                                                       5452
                                                                                                                                                                                                                                                                                                                                         9949
                                                                                                                                                                                                                                                                                                                                                                                                                        9889
                                                                                                                                                                                                                                                                                                                                                                                                                                            5632
                                                                                                                                                                                                                                                                                                                                                                                                                                                               6946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        5872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5932
4973
                                                                             5092
                                                                                                                                                                                                                                         5332
                                                                                                                                                                                                                                                                                                                                                              5512
                                                                                                                                                                                                                                                                                                                                                                                6826
                                                                                                                                                                                                                                                                                                                                                                                                     5572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7245
                                                                                                                                                                                                                                                                                                g
             a
                                     8 8
                                                                          ઠે
                                                                                           셤
                                                                                                             Š
                                                                                                                                 g
                                                                                                                                                          8 8 8
                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       કે
```

RESULT 3 US-11-177-987-26 ; Sequence 26, Application US/11177987

29; 415 475 148 535 595 CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGGTATACATCTC 268 655 703 448 149 CTTGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAA 208 269 AATÓCTGCTÓTTTCTCGTTGGATCTACTTGGAATCCAAATAGTTÓTTAAAACTTTTCTTCA 328 GAGCATCTCTAAGAGCTTTAGGAACCCACTGTTATCCCTGAGGGTAGATAAATTTTCTG 388 449 Trigicirirardaracaratardardaariririricicaaadagicicarricagraarcear 508 628 CCCACGACTGCAATACTTTCCATCCTGTTGTGCTCTTCTGAACTCATACTCTTGGC 881 CIGAIGATITITITITICTITIAIGCCICTGIGCATIGITCTAAACICAIGCACACAICTG 568 -----CTGAGACCCACTGCGGACATACATCTCTAC 916 88 596 ICTCTTTCTCTCCATACCGCCTTGCCATTTCTCTGAAGCACTTGCAAACTCTTTAGGGGC GCTTTATCTCCGCAGGTCTCACTACCTATGTTTTCTGTCT------CTTTAGAG CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGGTACAGCTGCA CTCTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA CTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGGCCGCCCTGCAGAA GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTGAGGTGTCCAA 569 AATICIGCITITAGICITIANGARGITGCICIÓGGGAGACGGGATGGGGCACATGICIAT Gaps 152; Length 4797; Score 650; DB 7; Length 47; Pred. No. 1e-133; 0; Mismatches 1285; Indels Query Match
Best Local Similarity 56.5%;
Matches 1863; Conservative 0 TYPE: DNA ORGANISM: Homo sapiens 882 TACTCð

1751 CTGATTCTGCCOTCCAMANTACTCACTCACTCACTCACTCACTCACTCACTCCCCCCCC	
6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H 6 H	
916 GCUAGCCTICCAATIAACAACAACAACACTCATCCAGCTCATCGGGGAAAACTGTTCCCAGGA 108 103 GCTCAGCTATCATCATCACACACACACTCTCTCTCTTCTTCTCTCTCTCTCTCTCTCTTTGGGT 108 103 GTCAGCTACACTCTCACACCTCTCACCTCTCTCTTTTCTCTCTC	17 (200 17) (200 17) (200 17) (200 17) (200 17) (200 17) (200 17) (200 17) (200 17) (200 17) (200 17) (200 17)

ð

ò

```
Sequence 7, Application US/11177987

Sequence 7, Application US/11177987

Publication No. US20050271619A1

GENERAL INFORMATION:
THORMATION:
TITLE OF INVENTION:
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
TITLE OF INVENTION: LOD 5664
CURRENT APPLICATION NUMBER: US/11/177,987
CURRENT APPLICATION NUMBER: US/09/626,617

PRIOR APPLICATION NUMBER: US/09/626,617

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-07-16

PRIOR PILING DATE: 1999-07-16

PRIOR PILING DATE: 1999-07-16

PRIOR PILING DATE: 1999-10-18

PRIOR PILING DATE: 1999-10-26

NUMBER OF SEQ ID NOS: 43

SEQ ID NOS: 43
                                                                                                                                                                                                                                                                                                                       5700
                                                                                                       5520
                                                                                                                                                                             5580
                                                                                                                                                                                                                                                 5581 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       988 ATATGGATTTATTTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 1047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  807
                                                                                                                                                                                                                                                                                                                                           928 TACTITATATATGTAAGITITATITATTATAAGIAITACATITITATITATGTCAGITITATIA 987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    569
                                                                                                                                                                                                              867
                                                                                                                                                                                                                                                                                    927
 628 GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTTACTAAAGGAAAGTGAGAA 687
                                                                                                                         868 AGGAGGTTACCTCTCATTCCTCTAGAAAAAGCCTATGTAACTTCATTTCCATAACCAA
                                                                                                                                                                                                                                                                                                                       ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAAACACATGAATATCA
                                                                                                         5461 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5221 ATAGCTTGGAGAGAGAGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1119;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9.4%; Score 555.2; DB 7; 96.0%; Pred. No. 4.1e-113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. 4.1e-113
0; Mismatches 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 96.0
Matches 580; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5821 TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1108 TAAA 1111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
ORGANISM: Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-11-177-987-7
                                    5401
                                                                                                                                                                                                                                                                                                                                                                                             5701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                  셤
                                                                                                                                g
                                                                                                                                                                             ò
                                                                                                                                                                                                     음
                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                   ઠે
                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9, Application US/1117987
; Sequence 9, Application US/1117987
; Publication No. US20050271619A1
; GENERAL INFORMATION:
   APPLICANT: Dumoutier, Laure
; APPLICANT: Dumoutier, Laure
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; TITLE OF INVENTION: Interleukin-21, The Proteins Encoded, and Uses Thereof
; TITLE OF INVENTION NUMBER: US/11/177,987
; CURRENT APPLICATION NUMBER: US/09/626,617
; PRIOR PILING DATE: 2000-07-27
; PRIOR PLILNG DATE: 1999-07-16
; PRIOR FILING DATE: 1999-07-16
; PRIOR FILING DATE: 1999-07-16
; PRIOR FILING DATE: 1999-10-26
; NUMBER OF SEQ ID NOS: 43
                                                                                                                                                                                                          AATTTTCAGTAACAAGCTTAACCTTAATTCCCCCTTTTTCCCTCTTGACTTTTTAAAAA 3050
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTATAGTGAATGATACCATCATGTGGCCTATTTGGTGAAAAGAACA--ACAATGGAAGGC 2872
                                                                                                                                                                           AATTATCAGTAAGATATCTACCCTTATCTCC-----TTCTTCTATAGAAGCTAAACCG 3313
                                                                                                                                                                                                                                                   TCTCTCCTTCTTGTGTGTGTGATAAACACGCTTGTT--TTCTTTTGAGTGTTCATGG 3371
                                                                                                                                                                                                                                                                                                                       CTTTGCAGATTTTCAGTGCTCTGCCAGTTCTTGT--TAGAGGGTTTGTTACCTTGACACC 3429
                                                                                                                                                                                                                                                                                                                                                      CTTTGTAGTTTTAAATTGTGAAGCCCAGTTCTCTTGTTATAGAACTATTATCTAGACATG 3170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA 5400
                                                                                                                                                                                                                                                                                                                                                                                         3430 TGGGCTIGGATGTTAGCATGCCAAAGGCACACACTTCTGAATGCCTGTGTAAAGGTTAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTAGACTAACAATAGT-GACTCACCCCAAAACCGGAGGAATGATTAGGAGCAGTGAAAGT
                                                                                                         GAGGCTCTTCACAAGTGGGTGTGCTTAAGTAATCAGAAACAGGAAGGCTCTGGTTGATGG
                                                                                                                                        GACGCTCTT-GCAAGCAGGTACAACTAAATACTCAGAAACATGAAGGCTCCAGTTGATGG
                                                                                                                                                                                                                                                                                    3171 GAGGCCTGAATGTTAGCATGCCACAGACAAGCCATGCTTTACACATCTTGCTTAAAAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TATTCATTTACT-----TIGICTTTGGAAAGGIGAAGTGTGTGTGAAAAAAACAACTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAAGCTTGGAGAGAGCGGAGAGAATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     521 ATAGCTTGGAGAGAGCGGAGAGATCAAAGCGATCGGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 602.4; DB 7;
Pred. No. 1.5e-123;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10.1%;
99.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 10.1
Best Local Similarity 99.8
Matches 603; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-11-177-987-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        268
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5341
   2815
                                                                      2873
                                                                                                       3201
                                                                                                                                        2932
                                                                                                                                                                             3261
                                                                                                                                                                                                              2991
                                                                                                                                                                                                                                                 3314
                                                                                                                                                                                                                                                                                    3051
                                                                                                                                                                                                                                                                                                                                                        3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3490
                                    3141
                                                                                                                                                                                                                                                                                                                       3372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                 8 8
                                                                                            ò
                                                                                                                                  g
                                                                                                                                                                           ò
                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

```
41444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4315
                                                                                                                                                              5396
                                                                                                                                                                                                                                            5456
                                                                                                                                                                                                                                                                                                                          5513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            996 GACTGCATTTTATTTATTTATTTATTATTATTAGATTTATTATAGAAACATCATTCGA 1055
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1056 TATTGCTACTTGAGTGTAAAGGCTAATATTGATATTTATGACAATAATTATAGAGCTATAA 1115
                                                                                                                                                                                                                                                                                                                                                                                                        5514 ATTGACAATATTTTTTTTGTCATTGATA----ATGCAACAGAAAAGTATGTACTTTAAAA 5569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5570 AATTGTTT-----GAAAGGAGGTTACCTCTCATTCCTCTAGAAGAAA---GCCTATG 5619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5620 TAACTICA--TITCCATAACCAATACTITATATGTAAGTTTATTATATATAAGTATA- 5676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5732 IGTIGATATITGAGTATAAAGCAAATA---ATATITTATGATAATAACTATAG----AAAC 5784
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ----CATTTTATTTATGTCAGTTTATTAATATGGATTTATTATAGAAAATTATCTGA 5731
                                                                                                                                                                                                                                                                                  696 geaageccaaacrecarcargargagagarrecaaargaaccecrecerragrracaaag 755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 83, Application US/11121086;
Publication No. US20050266459A1
GENERAL INPORMATION:
APPLICANT: POULSEN, TIM S.;
APPLICANT: NIELSEN, KIRSTEN V.
TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES;
CURRENT APPLICATION NUMBER: US/11/121,086
CURRENT PELICATION NUMBER: 00/567,570
PRIOR APPLICATION NUMBER: 60/567,570
PRIOR FILING DATE: 2004-05-04
NUMBER OF SEQ ID NOS: 107
SEQ ID NO 8: 107
SEQ ID NO 8: 107
SEQ ID NO 8: 107
SEQ ID NO 8: 107
                                                                                                                                                                                                                                                                                                                                                 636 cccriecragaaaraacaarragareccccaaaecearrrrrrraaccaaaagaagare
                                                                                                                                                                                                                                                                                                                            5457 AAAATAGTGTCAA--GTTGTCCATGAGACCAG-AGGTAGACTTGATAACCACAAAGATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAAAGCACCAGCAGCAGGCATGGTGGCCCATGCCTTTAATCCCAGCATTTGGGAGGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41385 AAAATAAAAATTAGCCAGGCATGGTGGCATATGCTGTGGTCTCAGCTACTTGGGAGGCT
                                                                                TCTGAGAAATGCTTGCGTCTGAGCGAGAAGAAGCTAGAAAACGAAGAACTGCTTCCTT
                                                                                                           5397 AGAAGCTAACGTCCACCATCATTAGAAGATTTCACATGAAACCTGGCTCAGTTGAAAGAG
                         5221 ATAGCTTGGAGAGAGAGAGAGATCAAAGCGATCGGGAACTGGACCTGCTGTTTATGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3; Gaps
                                                                                                                                                                5341 GCCTTCTAAAAGAACAATAAGATCCCTGAATGGACTTTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5785 AAGATATCTTAGGCTTTAATAAACACATGAATATC 5819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 2.7%; Score 159.4; DB 7; Best Local Similarity 64.1%; Pred. No. 1.4e-24; Matches 257; Conservative 0; Mismatches 141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CATGITIATITGACCICAAIAAACACTIGGAIAIC 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 187745
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 7
US-11-121-086-83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-121-086-83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4256
                                          516
                                                                                  5281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ሯ
                                                                                                                                                                                             9
                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                               g
                                                                                ò
                                                                                                         셤
                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Audrey
APPLICANT: Goddard, Cristopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Wood, William I.
TITLE OF INVENTION: ANTIBODIES TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
TITLE OF INVENTION: ANTIBODIES. TO POLYPEPTIDES ENCODED BY A NUCLEIC ACID UNDEREXPRESS
TITLE OF INVENTION: BATHER 10,06362
TITLE OF INVENTION NUMBER: 10,06362
CURRENT APPLICATION NUMBER: 10,06362
PRIOR FILING DATE: 2000-08-04
PRIOR FILING DATE: 2000-08-24
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: 60,170262
PRIOR APPLICATION NUMBER: 60,170262
PRIOR APPLICATION NUMBER: 60,170262
PRIOR PILING DATE: 199-12-09
NUMBER OF SEQ ID NOS: 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATATGGATTTATTTATAGAAAAATTATCTGATGTTGATATTTGAGTATAAAGCAAATAAT 5760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            990 ATATGGATTTATTTATAGAAACATTATCTGCTATTGATATTT-AGTATAAGGGAAATAAT 1048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5761 ATTTATGATAATAACTATAGAAACAAGATATCTTAGGCTTTAATAACACATGAATATCA 5820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10;
                                                                                                                                                                                                                                                                                        ATATTTTATTGTCATTGATAATGCAACAGAAAAGTATGTACTTTAAAAATTGTTTGAA 5580
                                                                                                                                                                                                                                                                                                                                                                      5581 AGGAGGTTACCTCTCATTCCTCTAGAAGAAAAGCCTATGTAACTTCATTTCCATAACCAA 5640
                                                                                                                                                                                                                                                                                                                                                                                                                                                    TACTITIATATATGTAAGTITTATTATAAGTATACATTITATTATGTCAGTITATTA 5700
                                                                                                                                                 690 GCTAACGTCCATCATCATTAGAAGATTTTCACATGAAACCTCGGCTCAGTTGAAAAAAGAAAA 749
                                                                                                                                                                                                                           750 TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAGATTCATTGACA 809
                                                                                                                                                                                                                                                                                                                              810 ATATTTTATTGTCACTGATGATACAAAAAAAAAATAATGTACTTTAAAAAATTGTTTGAA 869
                                                                                                                                                                                                                                                                                                                                                                                           870 AGGAGGTTACCTCTCATTCCTTTAGAAAAAAGCTTATGTAACTTCATTTCCATATCCAA 929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            930 TATITIATATATGTAAGTITATTATTATAAGTATACATTITATTATTATGTCAGTITATTA 989
                                                                                  GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAAGGAAAGTGAGAA 689
  GCCTTCTAAAAAGAACAATAAGATCCCTGAATGGACTTTTTTACTAAAGGAAAGTGAGAA
                                                                                                                                                                                                          TAGTGTCAAGTTGTCCATGAGACCAGAGGTAGACTTGATAACCACAAAGATTCATTGACA
                                                                                                                          GCTAACGTCCACCATCATTAGAAGATTTCACATGAAAACCTGGCTCAGTTGAAAGAGAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 3.6%; Score 215; DB 7; Length 115
Best Local Similarity 69.9%; Pred. No. 5.3e-38;
Matches 444; Conservative 0; Mismatches 155; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 153, Application US/11102240; Publication No. US20050260647A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
CORGANISM: Homo Sapien
US-11-102-240-153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAAA 5824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1109 TAAA 1112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
US-11-102-240-153
                                                                                                                                                                                                                                                                                                                                                                                                                                                    5641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5701
                                                                                                                                                                                                          5461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5821
                                            5341
                                                                                  630
                                                                                                                          5401
                                                                                                                                                                                                                                                                                        5521
                                                                                                                                                                                         8 6 8 6
                                                                                                                                                                                                                                                                                                                                                              ठ हे ठ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                         8 & 8
                                          ò
```

```
47231 TATGATGAAACCCCATTTCTATCTGGGCATGGTGGCAGATGCCTGTAATCCCAGCTACTT 47290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        47291 GGGAGGCTGGGGCAGGAGAATCGCTGGAACCTGGG-------AGGCAGAGGTT 47336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   47337 GCAGTGAACTGAGATTGTGCCACTGCACTCCAGCCTGGGCAACAAGAGAAAACATTCACC 47396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4308 GGGAGGCAGAGGCAGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTC 4367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4249 TTTGTTAAGAAAGCACACAGGCAGCTGGGCATGGTGGCCCATGCCTTTAATCCCAGC-ATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 260209;
                                                                                                                                                                                  APPLICANT: ROSEN, STEVEN
APPLICANT: ROSEN, STEVEN
APPLICANT: TOMITA, MEDUMI
TITLE OF INVENTION: Ulforransferases and methods of use
TITLE OF INVENTION: thereof
FILE REFREENCE: UCAL-230CON
CURRENT APPLICATION NUMBER: US/10/933,025
CURRENT FILING DATE: 2004-09-01
PRIOR APPLICATION NUMBER: 10/025,966
PRIOR FILING DATE: 2001-12-21
PRIOR FILING DATE: 2000-12-27
PRIOR FILING DATE: 2000-12-27
PRIOR FILING DATE: 2000-12-27
PRIOR FILING DATE: 2001-09-02
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FRAESEQ for Windows Version 4.0
SEQ ID NO 23
LENGTH: 260209
                             72237 GAAGGAAGGAAGGAAGGAAGGAAGGAAGGGACTAGAG 72277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      47517 GAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAG 47552
4548 GAGAAGAGAAGAGAAGAGAAGAGAAGAGAAGAGAAG 4583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 2.4%; Score 142; DB 6; Best Local Similarity 68.8%; Pred. No. 1.1e-20; Matches 231; Conservative 0; Mismatches 90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/11176253
; Publication No. US20050262579A1
; GENERAL INFORMATION:
; APPLICANT: Yamanouchi Pharmaceutical Co., Ltd.; TILE OF INVENTION: Novel clock gene promoter; FILE REFERENCE: Q75308
                                                                                                                                 Sequence 23, Application US/10933025
Publication No. US20050265987A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LOCATION: (1)...(260209)
; OTHER INFORMATION: n = A,T,C or G
US-10-933-025-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
NAME/KEY: misc feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-11-176-253-1
                                 엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                          11445 AAGGCAGGAGCATCGCTTAAGGC---TTCAGTGAGCCATGTTCATGACACTGCATTCCAG 41501
                                                                                                                                 4315 AGAGGCAGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4255 AAGAAAGCACAGGCAGCTGGGCATGGTGGCCCCATGCCTTTAATCCCAGCATTTGGGAGGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match 2.4%; Score 145; DB 6; Length 171936; Best Local Similarity 69.8%; Pred. No. 2e-21; Matches 196; Conservative 0; Mismatches 85; Indels 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                         41742 AGAAAGGAAAGGAAGGAAGAAAGAAAGAAGAACTGCACA 41782
                                                                                                                                                                                                                                                                                                                                                                                                       4616 AGAAAAGAAAAAAAAGCAAGCAAGCAAGCACTGGCAAA 4656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 24, Application US/10933025
; Publication No. US20050265987A1
; GENERAL INFORMATION:
    APPLICANT: ROSEN, STEVEN
; APPLICANT: TOMITA, MEGUMI
; TILLE OF INVENTION: Sulfotransferases and methods of use;
TILLE OF INVENTION: Lhereof
; FILE REFERENCE: UCAL-230CON
; CURRENT FILING DATE: 2004-09-01
; PRIOR APPLICATION NUMBER: 10/025,966
; PRIOR APPLICATION NUMBER: 60/258,577
; PRIOR PELING DATE: 2000-12-27
; PRIOR PILING DATE: 2000-12-27
; PRIOR FILING DATE: 2000-12-27
; PRIOR FILING DATE: 2000-12-27
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FERSENG for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: DNA
; ORGANISM: Mus musculus
US-10-933-025-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 171936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID NO 24
                                                                                           4376
                                                                                                                     g
                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                             셤
                                                                                           Š
                                                                                                                                                                    P 4
                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
```

```
유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                            셤
                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94031 AAAATACAAAAACTAGCCAGGTATGGTGGCACGTGCCTGTAATCCCAGCTACTAGGGAGG 93972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4269 AGCTGGGCATGGTGGCCCATGCCTTTAATCCCAGCATTTGGGAGGCAGAGGCAGGTGACT 4328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4329 TICTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGGCCAGGGCTATACA 4388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         5720 TICTGAGITICGAGGCCAGCCTGGTCTACAAACTGAGTTCCCAGGACAGCCAGGACTATACA 5779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5660 AACCGGGTGTGGTGGCGCACGCCTTTAATCCCCAGCACTCGGGAGGCAGAGGCAGAGGCGGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4255 AAGAAAGCACAGGCAGCTGGGCATGGTGGCCCATGCCTTTAATCCCAGG-ATTTGGGAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4314 CAGAGGCAGGTGACTTTCTAAATTCAAGGCCAGCCTGGTC-----TACAAAGTGAGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   93971 creacicación de articontra accreación de acimica de actual de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 135019;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 139; DB 7; Length 17004;
Pred. No. 1.3e-20;
0; Mismatches 40; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 133; DB 6; Length 13
Pred. No. 7.7e-19;
0; Mismatches 135; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 11, Application US/10849438
Publication No. US20050261217A1
GENERAL INFORMATION:
APPLICANT: Kenneth W. Dobie
TITLE OF INVENTION:
FILE REFERENCE: RTS-0715US
CURRENT APPLICATION NUMBER: US/10/849,438
CURRENT FILING DATE: 2004-05-18
CURRENT APPLICATION NUMBER: US/11/176,253
CURRENT FILING DATE: 2005-07-08
PRIOR PLICATION NUMBER: US/10/415,489
PRIOR PLING DATE: 2003-04-30
PRIOR FILING DATE: 2003-04-02
PRIOR PLING DATE: 2002-04-02
PRIOR APPLICATION NUMBER: PCT/JP02/03290
PRIOR PILING DATE: 2001-04-05
PRIOR PILING DATE: 2001-06-18
PRIOR PRILING DATE: 2001-06-18
PRIOR PILING DATE: 2001-06-18
PRIOR PILING DATE: 2001-06-18
PRIOR PILING DATE: 2001-06-18
PRIOR PILING DATE: 2001-06-18
PRIOR PILING DATE: 2001-06-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4449 AGAGGAGAGAGAGAGAGAGA 4471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5840 GAAAGAAAGAAAGAAAGAAAGA 5862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Simination
Matches 241; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches 163; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: H. sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 11
US-10-849-438-11/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 135019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 17004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-849-438-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-11-176-253-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         업
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

```
Sequence 25, Application US/11177987
Publication No. US20050271619A1
GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
APPLICANT: Renauld, Jean-Christophe
TITLE OF INVENTION: Interlad Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: Interlad Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE APPLICATION UNBER: US/11/17,987
CURRENT FILING DATE: 2005-07-07
PRIOR APPLICATION NUMBER: US/09/626,617
                                                                                                                                      4295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4236 TCTTGTTTGTTTTTGTTAAGAAAGCACAGGCAGCTGGGCATGGTGGCCCATGCCTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               625 rerraarhaagarrarracaadagraarcarreadacddgrergggddgcacacdccrrrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4296 ATCCCAGCATTTGGGAGGCAGAGGCAGGTGACTTTCTAAATTCAAGGCCAGCCTGGTCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             685 Arcccagcacriroggaegeaegeaegeaegearricreaegriceaegraagccreerera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 10166;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 128.8; DB 7;
Pred. No. 1.7e-18;
0; Mismatches 47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Ntambi, James M.
APPLICANT: Miyazaki, Makoto
ITILE OF INVENTION: Stearoyl-CoA desaturase 4 gen
FILE REFERENCE: 960296.00197
CURRENT APPLICATION NUMBER: US/11/147,606
CURRENT FILING DATE: 2005-06-08
PRIOR FILING DATE: 2006-06-08
PRIOR FILING DATE: 2004-06-09
NUMBER OF SEQ ID NOS: 13
SOFTWARE: Patentin version 3.2
SEQ ID NO 3
                                                                                                                                                                                                                                                                                                                                        93671 AAGAGAAGAGAGAGAGAAA 93649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4416 AAAGAAGAAAGAAAAGAAAGAA 4439
                                                                                                                                                                                                                                                                                             4608 AAGAAAAGAGAAAAGAAA 4630
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AACAAAACAAAAAAAAAAAAAAA 828
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 3, Application US/11147606; Publication No. US20050278795A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 2.2%;
Best Local Similarity 77.0%;
Matches 157; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 10166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                           US-11-147-606-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-147-606-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     805
```

```
ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               475
                                                                                                                                                                                                                                                                                                                                                                                                                                        89 ATCTGTGAGGTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTTTGGCCCT 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          149 ctricinacacidadeageageagerececentragerecearideagerreagaageeaa
                                                                                                                                                                                                                                                                                                                                                                              29 crccrrccccadrcaccagriscrcgagriagaarrgrcrccaarecceccrccadaa
                                                                                                                                                                                                                                                                                                                                                                                                                    GTGGGCCCAGGAGGCAAATGCGCTGCCCATCAACACCCGGTGCAAGCTTTGAGGTGTCCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      356 CICTCCTCTCAGTTATCAACTTTTGACACTTGTGCGATCGGTGATGGCTGTCCTGCAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1, Application US/11121086
Publication No. US20050266459A1
GENERAL INFORMATION:
APPLICANT: POULSEN, TIM S.
APPLICANT: NIELSEN KIRSTEN V.
TITLE OF INVENTION: UNCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES FILE REFERENCE: 09138.6000-00000
CURRENT APPLICATION NUMBER: US/11/121,086
CURRENT PILING DATE: 2005-05-04
PRIOR PILING DATE: 2004-05-04
PRIOR FILING DATE: 2004-05-04
                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 126552;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTTCCAGCAGCCCTATATCACCAACCGCACCTTCATGCTGGCTAAGGAGG 258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTTCCAGCAGCCGTACATCGTCAACCGCACCTTTATGCTGGCCAAGGAGG 585
                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                          Length 690;
                                                                                                                                                                                                                                                                                                            64; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 2.1%; Score 126.4; DB 7;
Best Local Similarity 87.2%; Pred. No. 2.1e-17;
Matches 150; Conservative 0; Mismatches 21;
                                                                                                                                                                                                                                                                       Score 127.6; DB 7
Pred. No. 8.1e-19;
0; Mismatches 64
PRIOR FILING DATE: 2000-07-27
PRIOR APPLICATION NUMBER: US09/419,568
PRIOR FILING DATE: 1999-10-18
PRIOR PLILNG DATE: 1999-07-16
PRIOR APPLICATION NUMBER: US09/134,243
PRIOR FILING DATE: 1999-07-16
PRIOR FILING DATE: 1998-10-26
PRIOR FILING DATE: 1998-10-26
SEQ ID NO 25
LENGTH: 690
                                                                                                                                                                                                                                                                     2.18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 107
SOFTWARE: Patentin version 3.3
SEQ ID NO 1
LENGTH: 126552
                                                                                                                                                                                                                                                                       Query Match 2.1
Best Local Similarity 72.2
Matches 166; Conservative
                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                     US-11-177-987-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 14
US-11-121-086-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-11-121-086-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               536
                                                                                                                                                                                                                     FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             쉽
                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                   쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
```

```
APPLICANT: FRANKLOSO, CALLO.

APPLICANT: PAPA, SALVATORE
APPLICANT: BUBICI, CONCETTA
APPLICANT: BUBICI, CONCETTA
APPLICANT: DESMAELE, BNRICO
APPLICANT: ZAZZERONI, FRANKCECA
ITILE OF INVENTION: CELL DEATH OR APOPTOSIS BY TARGETING JNK
FILE REPERBNES: 21459-97705
CURRENT APPLICATION NUMBER: US/11/000,365
CURRENT APPLICATION NUMBER: 06/526,231
FRIOR APPLICATION NUMBER: 10/626,905
FRIOR PILING DATE: 2003-11-29
FRIOR FILING DATE: 2003-07-25
FRIOR PRILING DATE: 2001-00-02
FRIOR FILING DATE: 2001-10-12
FRIOR FILING DATE: 2001-10-12
FRIOR FILING DATE: 2001-10-12
FRIOR FILING DATE: 2001-10-12
FRIOR FILING DATE: 2001-10-12
FRIOR FILING DATE: 2001-10-12
FRIOR APPLICATION NUMBER: 60/326,492
FRIOR APPLICATION NUMBER: 60/326,492
FRIOR FILING DATE: 2001-10-02
FRIOR APPLICATION NUMBER: 60/326,492
FRIOR FILING DATE: 2001-10-02
FRIOR FILING DATE: 2001-10-02
FRIOR FILING DATE: 2001-10-02
FRIOR FILING DATE: 2001-10-02
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2001-10-03
FRIOR FILING DATE: 2003-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4331 CTAAATTCAAGGCCAGCCTGGTCTACAAAGTGAGTTCCAGGACAGCCAGGGCTATACAGA 4390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          325 CTGAGTTCGAGGCCAGCCTGGGCTACAGAGTGAGTTCCAGGACAGGCCAGGGCTACACAGA 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4271 CTGGGCATGGCCCATGCCTTTAATCCCAGCATTTGGGAGGCAGAGGCAGGTGACTTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 2695;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 125.4; DB 7;
Pred. No. 5e-18;
0; Mismatches 56;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4451 AGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 4485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       205 cagcaggggagaaarggcrcagagarraagag 171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Search completed: December 21, 2005, 18:12:25 Job time: 434.821 Becs
US-11-000-365-35/c
; Sequence 35, Application US/11000365; Publication No. US20050267022A1
; PUBLICANT: PRANZOSO, GUIDO
; APPLICANT: PRANZOSO, GUIDO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.1%;
74.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 74.05
Matches 159; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-11-000-365-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: DNA
```

THIS PAGE BLANK (USPTO)

Lyis bade Blank (nsbto)